



BELGIAN ADVANCED MATERIALS

PLASTICS & RUBBER



belgian
foreign trade agency



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PRESENTATION OF THE SECTOR



PRESENTATION OF THE SECTOR

SECTION 1 PLASTICS & RUBBER: THE CONTEXT

1.1 A BELGIAN INVENTION

Leo Baekeland was a Belgian-born American chemist famous for his research in photography and plastics. He is considered to be the father of the plastics industry. Born in Ghent in 1863, he was a chemistry student, doctor and researcher at his hometown university before emigrating to the United States. It's there that he became famous. In 1907 he developed Bakelite, the first plastic, which marked the beginning of the age of plastics. The invention won him the Franklin medal in 1940. Time magazine named him one of the greatest minds of the 20th century.

Plastic is a general term used to designate a whole range of synthetic and semi-synthetic materials. Etymologically, the word comes from the Greek "plastikos" and the Latin "plasticus", which describes any substance that can be moulded. This origin refers directly to the malleability of the material, which means it can be made into various forms (including films, fibres, plates, tubes, bottles and boxes).

Plastics are made from organic materials. The substances used to make them are natural compounds like cellulose, carbon, natural gas, salt and crude oil. Plastic production begins with distillation at an oil refinery. It entails the separation of heavy crude oil into lighter fractions. Each fraction is a mixture of hydrocarbon chains (chemical compounds made of carbon and hydrogen), which differ in terms of the size and structure of their molecules.

Two polymer families can be distinguished: thermoplastics, which soften when heated and harden when cooled, and thermosetting plastics, which do not soften again once they have been moulded.



Time magazine named Leo Baekeland one of the greatest minds of the 20th century.

The different types of plastic have precise properties based on the chosen application. The six plastics most commonly used by plastics technologists in Europe in terms of market share are:

- Polyethylene (PEbd, PEbdl, PEhd)
- Polypropylene (PP)
- Polyvinyl chloride (PVC)
- Polystyrene
- Polyethylene terephthalate (PET)
- Polyurethane (PUR)

These six account for 80% of European demand, which was 47 million tonnes in 2011.



Leo Baekeland
(1863-1944)

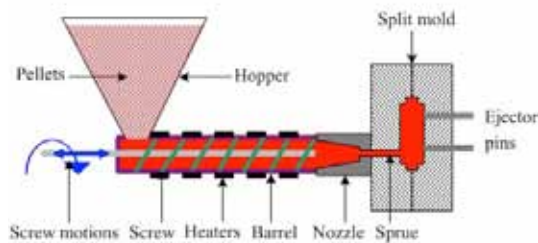
SOURCE:
Museum for the History of Sciences
(Ghent University)



◆ Technical note - Transformation procedures

Injection

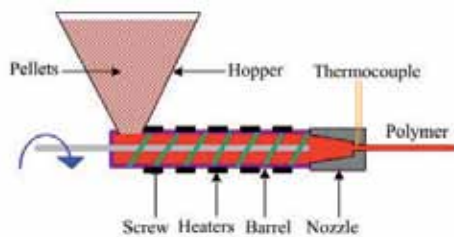
The raw plastic comes in the form of granules, which are compressed, blended and heated. This mechanical and thermal processing produces a homogenous melting paste, which is pushed through an opening into a closed, cooled mould. When it comes into contact with the cold walls it starts to harden, taking on the shape of the mould. The mould is then opened and the piece taken out. This process is used for batch processing of thermoplastics.



SOURCE: www.substech.com

Extrusion

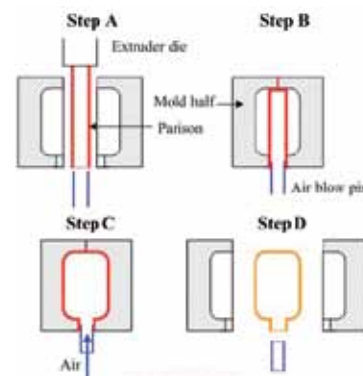
Extrusion on the other hand is a continuous process. What makes it different from injection is that the paste enters a die rather than a mould. This technique is used to create sections, pipes, cables, tubes and sheets that are cut to the desired length once they have cooled.



SOURCE: www.substech.com

Blow moulding

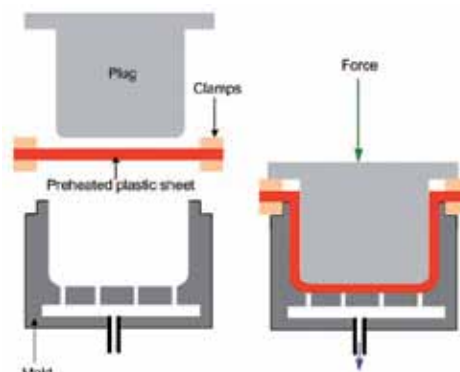
Blow moulding is a process used to manufacture hollow containers, such as bottles, flasks and petrol tanks. There are two types of blow moulding using the abovementioned techniques: extrusion blow moulding and injection blow moulding. First, an extruded tube, known as a parison (in extrusion blow moulding) or a preform (in injection blow moulding), is formed from the liquid plastic. The air is then blown inside this preheated hollow product and placed in a blowing mould. The plastic is stretched, pressing against the walls of the mould and taking on its shape. After cooling the mould is opened and the piece is removed.



SOURCE: www.substech.com

Thermoforming

Thermoforming is a secondary processing technique. It entails heating a material in the form of a sheet, tube or section to soften it so that it takes on the shape of a mould. The material rehardens as it cools, retaining the shape it has taken on.



SOURCE: www.substech.com

PRESENTATION OF THE SECTOR

1.2 CONTROLLED MATERIALS

Plastics are among the most tested and regulated products in Europe.

REACH (registration, evaluation, authorisation and restriction of chemicals) is a European Union regulation on the production and use of chemicals. It entered into force on 1 June 2007.

It covers all chemical substances made or imported as is, contained in preparations or present in articles in quantities equal to or more than one tonne per year.

Any producer or importer must submit to the European Chemicals Agency (ECHA) a registration report providing physical, chemical and toxicological data as well as user exposure evaluations and exposure scenarios for quantities greater than one tonne per year. These reports are assessed and the authorisation procedure is initiated if the control of these risks is guaranteed. A plastic product can only be marketed if it complies with REACH.

Even stricter rules apply to food (European Food Safety Authority, EFSA) and the distribution of potable water. Ministries for health, environment and construction also impose their own standards.



Plastics are among
the most tested and
regulated products in
Europe.



1.3 VALUE CHAIN

Various parties are involved in the lifecycle of plastics and rubber.

◆ Lifecycle



SOURCE: Inspired by Plastics Europe/Plastiwin

PRESENTATION OF THE SECTOR

SECTION 2 THE ADVANTAGES OF BELGIUM

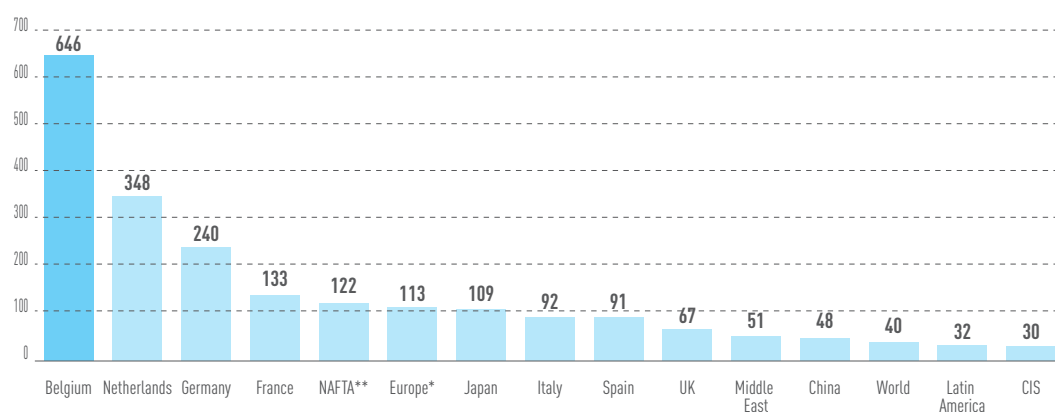
2.1 BELGIUM, A GLOBAL LEADER

Belgium is the global leader in per capita plastics processing and production, at 200 and 646 kg per capita respectively. Belgium processes 5% and produces 10% of all plastic in the European Union, despite being home to just 2.2% of the EU's population.



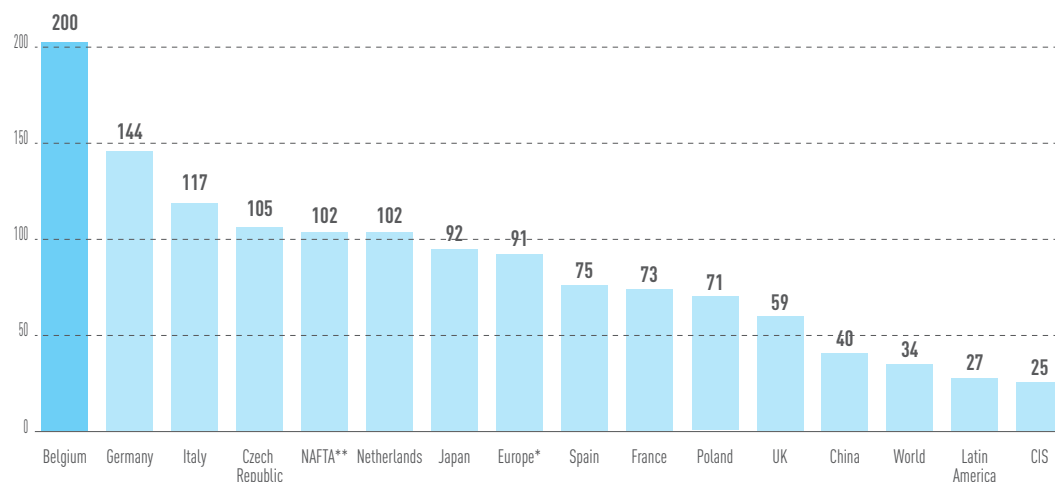
Belgium is the global leader in per capita plastics processing and production.

◆ Plastics production in kg per capita (2011)



SOURCE: Plastics Europe (2012)

◆ Industrial plastics consumption in kg per capita (2011)



SOURCE: Plastics Europe (2012)

* EU27+Switzerland+Norway
** USA+Canada+Mexico



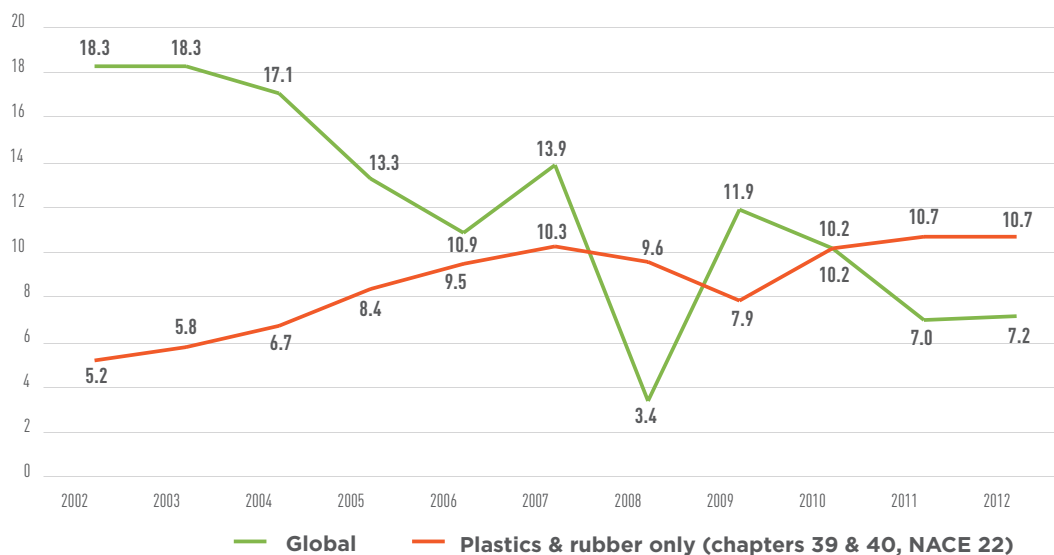
A survey of Federplast.be affiliates shows that volume at companies active in plastics and rubber declined by 2.6% in 2012, after a rise of 3.7% in 2011.

The industry is the leading contributor to Belgium's balance of trade with net exports in 2012 of EUR 10.7 billion, far ahead of pharmaceuticals (EUR 7.9 billion) and iron and steel (EUR 4.4 billion). Exports and imports were EUR 28.7 billion and EUR 18.0 billion respectively.



The industry is the leading contributor to Belgium's balance of trade.

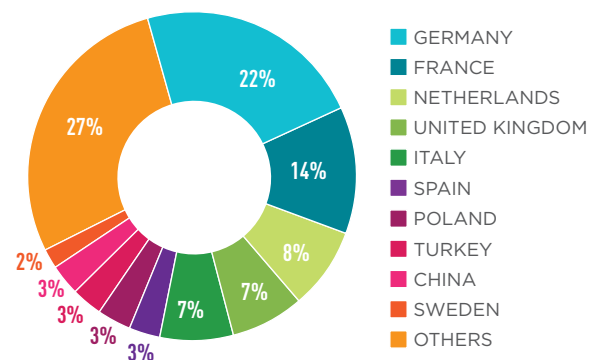
◆ Balance of trade 2002-2012 (in EUR billions)



SOURCE: National Bank of Belgium (2013)

Belgium's leading export markets for plastic and rubber products are Germany, France, the Netherlands and the United Kingdom, mirroring the general export situation. Those four account for EUR 14.8 billion in sales, which corresponds to more than half of total export sales in the industry.

◆ Belgian plastics and rubber exports in 2012



SOURCE: National Bank of Belgium (2013)

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2.2 BELGIUM, SETTING THE ENVIRONMENTAL STANDARD

Many citizens are surprised to hear that plastic is a sustainable product. This is still not a commonly known fact. Society tends to use a lot of plastic to manufacture disposable articles. Plastics are made from oil and are not considered to be an environmentally friendly product.

But the situation is a lot more complicated, so these two ideas need to be qualified. Today's plastics can be used in a wide range of sustainable ways and do not have to be produced from oil.

Only a small fraction of oil (corresponding to 4% of global consumption) is needed for traditional production of plastics. Through their general use, more oil is saved than used in their production. Today's polymers, which are lighter, more robust and more adaptable than they used to be, use less of the world's oil and energy reserves.

Greater awareness among citizens means that the quantity of plastics that end up at the rubbish tip is falling constantly, despite a rise in plastic consumption and, a fortiori, the underlying quantity of waste. This shows that waste recycling and energy recovery are gaining the upper hand over simple disposal.

More than half of the 47 million tonnes of plastic used by plastics technologists in Europe in 2011 (25.1 million) becomes waste. 40.6% is disposed of but 59.4% is recovered – 25.1% (6.3 tonnes) by recycling and 34.3% (8.6 tonnes) by incineration to produce energy. Belgium is among the EU elite when it comes to the recovery of plastic waste: 30% is recycled and 66% is incinerated to produce energy.

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Belgium is among the EU elite when it comes to the recovery of plastic waste.

Recyclable

Mechanical or chemical recycling is increasing for most plastics. Industries like construction and packaging already recycle intensively, the more so if their waste is homogeneous, of high quality and easy to clean.

In Belgium mixed plastic waste is also recycled. More than satisfactory results have been achieved by sorting and separate collection of waste packaging (bottles and other forms) for example (see Fost Plus interview). However, if the economic and environmental aspects are weighed up it's clear that extending selective collection to all plastic waste is inconceivable at the moment. Alternative methods are now recommended, such as energy recovery.



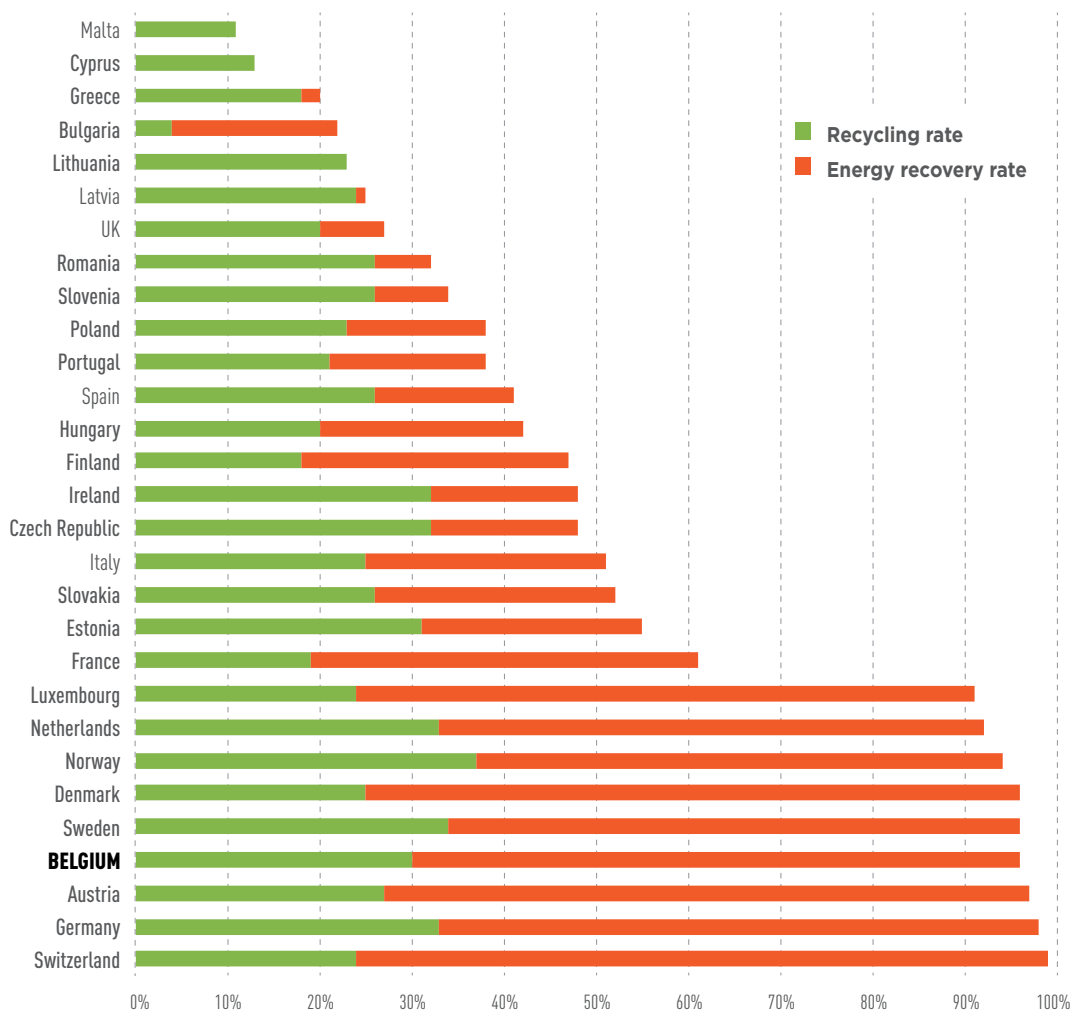
Recoverable

Plastic, which is made from oil, has a very high heating value. It can be incinerated, rather than burning fossil fuels like carbon, gas and oil, which conserves natural resources. According to Federplast, if all household waste were to be converted into energy this would meet the heating and electricity needs of more than 40 million people. Plastic accounts for 9% of household waste, but contributes 30% of the energy produced through recovery.

Biodegradable and compostable

Biodegradable and compostable plastics offer interesting solutions, for example in the medical field (thread or packaging for pharmaceuticals) or agricultural field (ground covering film).

◆ Global recovery rate in EU member states in 2011 for post-consumer plastic waste



SOURCE: Consultic/Federplast (2011)



PRESENTATION OF THE SECTOR

2.3 BELGIUM, A LOGISTICAL ADVANTAGE

According to the European Distribution Report published by Cushman & Wakefield, Belgium is strengthening its leading position among the most attractive EU member states in terms of logistics. In the classification by region, the provinces of Liège, Limburg and Hainaut hold the top three positions, while no fewer than 8 of the top 10 are Belgian.

This success is explained by the fast access Belgium has to the EU's biggest consumer markets. 80% of the EU's spending power is located within a 500 km radius.

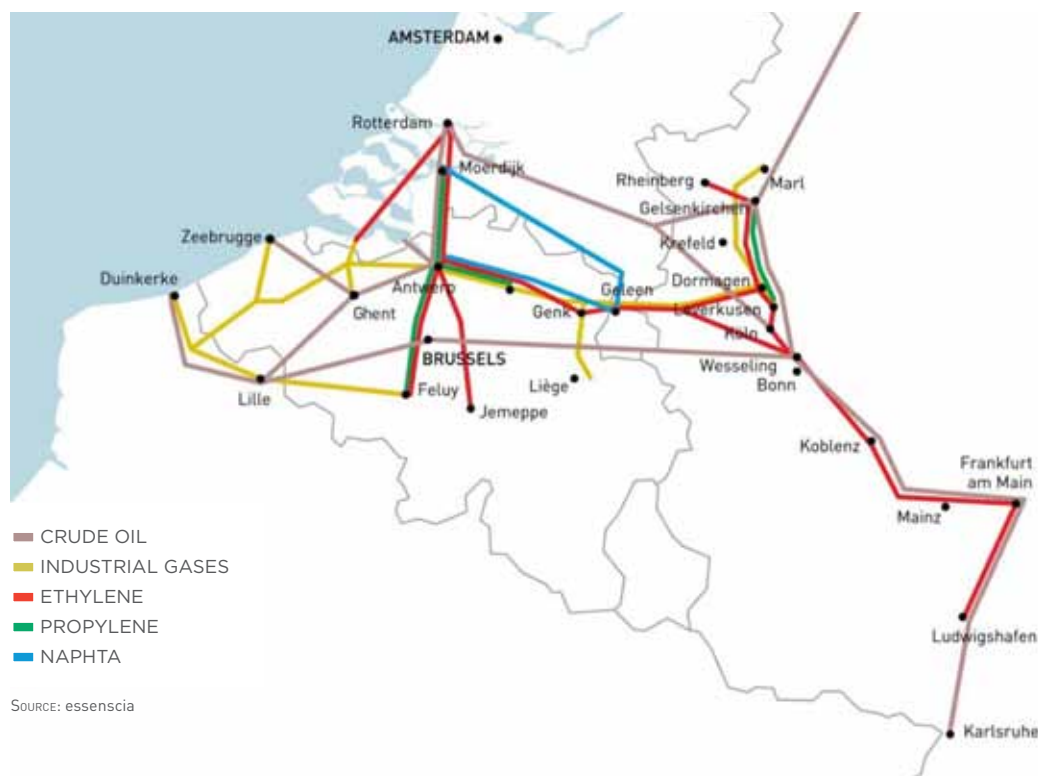
Belgium also benefits from very good integration in existing transport networks. Among other things, it has three strategic ports, Antwerp, Ghent and Zeebrugge. Belgium also has a dense network of pipelines providing a continuous supply of energy and petrochemicals at a low price. The pipelines are a long-term, reliable, environmentally friendly mode of transport.

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Belgium is strengthening its leading position among the most attractive EU member states in terms of logistics.

Belgium also has a competitive advantage in terms of costs (such as warehouse rental costs and real estate prices).

◆ Pipeline network in Belgium



2.4 BELGIUM, A LAND OF INNOVATION

Research and development are the keys to success in an industry centred on exploiting materials. The Belgian academic world has an international reputation, especially when it comes to science. Belgium is also home to many research centres with ties to plastics or rubber to some extent:

- Cenaero (www.cenaero.be)
- Centexbel (www.centexbel.be)
- Certech (www.certech.be)
- Materia Nova (www.materia-nova.com)
- Sirris (www.sirris.be)
- VKC, technology centre of Flanders' PlasticVision (www.plasticvision.be/vkc-en)

An effective partnership between academia and industry is the key concern of the Belgian Industry Research and Development (BIR&D). Its mission can be summarised as follows: "Stimulate the attractiveness and the effectiveness of industrial R&D in Belgium by leveraging collaborative innovation against a background of international R&D competition".

In May 2013 BIR&D signed a charter with 10 Belgian universities. The ambition is to make Belgium a "host country for R&D". The charter comes down to ten specific actions at three levels:

- Augmenting and encouraging the available pool of R&D talent
- Enabling joint ventures
- Increasing development potential

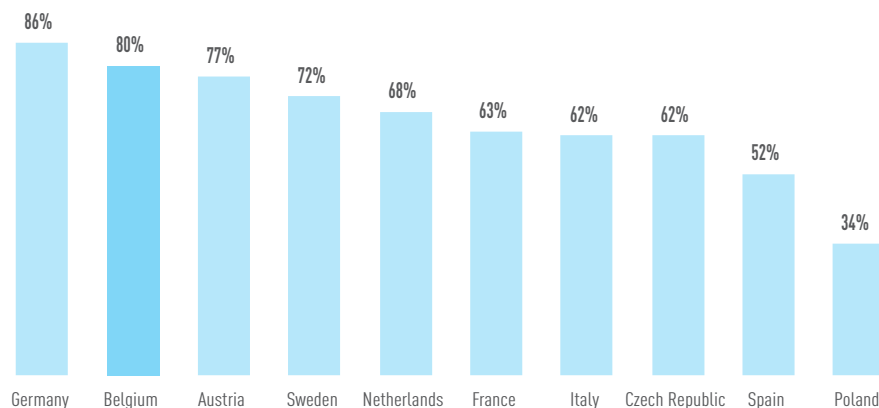
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80% of plastics and rubber processors in Belgium are innovative companies.

According to the 2013 innovation scoreboard of the European Commission, "Belgium is one of the innovation followers with an above average performance. Relative strengths are in *Open, excellent and attractive research systems, Linkages & entrepreneurship and Innovators.*"

According to a Eurostat survey, 80% of plastics and rubber processors in Belgium are innovative companies. It's the highest figure in the EU after Germany, ahead of Austria, Sweden and the Netherlands. In combination with strong productivity, Belgian companies enjoy a competitive edge.

◆ Innovative companies in the rubber and plastics processing industry as % of total



Source: Eurostat/Federplast (2010)



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2.5 BELGIUM, A FAVOURABLE TAX REGIME

Belgium has a tax and legal environment that is among the most attractive for foreign investors. The country was given a score of 82.3% in the classification of the quality of regulations in the Global Innovation Index 2012-2013. Extremely effective legislation means it takes just four days to get a business up and running in Belgium, which is quicker than any other European Union member state. All these benefits contribute to Belgium's openness to investors (<http://strat-staging.com/content.aspx?page=data-analysis>).

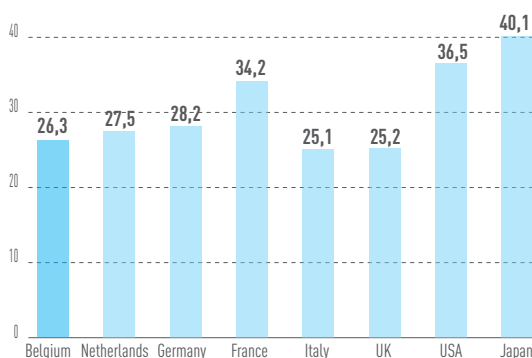
The primary tax legislation is the 1992 Tax Code. Changes are often implemented by Royal Decree and can be checked on the website of the government agency Fisconetplus (http://ccff02.minfin.fgov.be/KMWeb/changeLanguage.do?language=en_UK).

A competitive effective tax rate

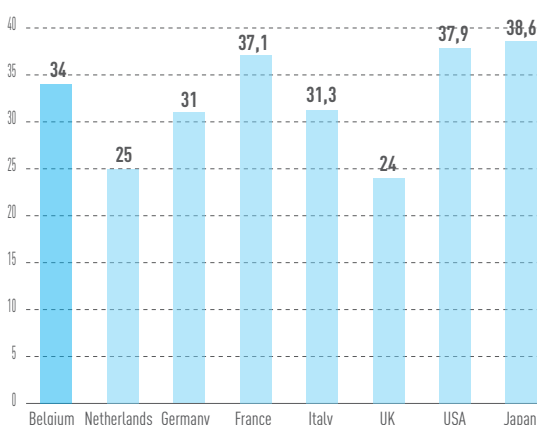
All companies in Belgium are subject to corporate tax. The nominal rate is 33.99%. For SMEs with a taxable income of no more than €322,500, the tax rate drops to 24.98% on profits up to €25,000, 31.93% on profits between €25,000 and €90,000 and 35.54% on profits between €90,000 and €322,500.

Belgium has a unique tax regime. Numerous deductions are available (see below). Thanks to these measures, the amount of tax due decreases significantly and the tax rate becomes much lower than in many other countries. Clearly, Belgium is highly competitive when it comes to taxes.

◆ ECTR (Effective Corporate Tax Rate)



◆ NCTR (Nominal Corporate Tax Rate)



SOURCE: FPS Economy

Notional interest deduction

The notional interest deduction is a unique and innovative tax benefit in Belgium. This is a tax deduction for risk capital, which reduces the unequal treatment of debt financing and equity financing. It is automatically applied to all companies registered in Belgium. The system allows companies to deduct a purely notional interest charge from their taxable base. The notional interest corresponds to an interest calculation on the basis of each company's adjusted equity capital. The notional interest rate for the tax year 2014 is 2.742 %. It is increased with an additional 0.5% to 3.242% for SMEs.





The notional interest deduction is a unique and innovative tax benefit in Belgium.

Advance tax rulings

Belgian tax law recognises the growing need for legal certainty among existing and potential investors. With this in mind, companies are offered an advance ruling on tax matters. This ruling has legal force, and is based on the competent tax authority's decision on how tax law applies to a given situation or transaction. This gives potential investors the legal certainty they need on the tax implications of their projects. The tax authorities are bound by these rulings for up to five years. The Federal Public Service has a special unit to deal with tax queries from foreign investors.

Exemption from withholding tax on dividends

Another widely acclaimed provision is the exemption from withholding tax on dividends distributed by Belgian companies to non-residents. This exemption applies to all countries with which Belgium has concluded a tax treaty, including the United States.

By registering their holding company in Belgium when investing in Europe, corporate investors from treaty countries can repatriate unlimited European profits without paying withholding tax on dividends and profits.

Additional benefits for R&D

Tax deduction on patent income

Tax deduction on patent income is a federal measure that results in an exemption of 80% on income from certain patents. This gives Belgium a very low effective tax burden on patent income (no more than 6.8%). The measure applies to all Belgian companies subject to corporate tax and to all Belgian branches of foreign companies that are subject to corporate tax.

Eligible patents for large companies:

- Patents self-developed in a Belgian or foreign R&D centre
- Patents acquired (by purchase or licensing) provided they are developed further in a Belgian or foreign R&D centre

Eligible patents for SMEs:

- Patents registered on their name (no need of a R&D centre)

Eligible income:

- License payments: milestone payments, upfront fees and so on
- A percentage of the turnover of patented products and services



The tax deduction on patent income gives Belgium a very low effective tax burden.



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Reduced employment charges for researchers

To ease the payroll costs of researchers, significant relief is given to employers in the form of an 80% exemption of the payroll tax (salary withholding tax).

The Belgian tax system also provides attractive conditions for foreign executives and researchers temporarily assigned to Belgium.

These attractive conditions include tax-free expatriation allowances (up to EUR 29,750 per year), tax-free reimbursement of establishment costs, school fees and business travel.

Higher investment incentives and tax credits for research and development

Companies that invest in research and development of new environmentally friendly products and advanced technologies benefit from increased investment incentives or a tax credit that corresponds to the tax saving linked to the investment deduction (14.5% of the investment value for fiscal year 2014), according to each company's choice. The selected benefits can be applied immediately or over the depreciation period of the investment. In that case the deduction amounts come to 21.5%.

For more information, see www.minfin.be or <http://business.belgium.be>.



2.6 BELGIUM, AN ATTRACTIVE DESTINATION FOR FOREIGN DIRECT INVESTMENTS

According to Ernst & Young's "2013 Barometer of Belgian Attractiveness", Belgium achieves excellent scores in terms of foreign direct investment (FDI). The number of investment projects has increased by 10%, from 153 in 2011 to 169 in 2012, against a fall of 2.8% across Europe as a whole. Belgium is the fifth place in Europe.

A perception study highlights some assets Belgium has as a destination for investments: the diversity and skills of the Belgian workforce, Belgian innovative capacity, the logistical situation and some tax incentives, such as the deductibility of notional interest. According to Ernst & Young, "American companies have always invested in Belgium, given its logistical situation, its highly qualified workforce and its tax regime".



Belgium achieves excellent scores in terms of foreign direct investment.



SECTION 3

INDUSTRY PLAYERS AND FIELDS OF APPLICATION

3.1 INDUSTRY PLAYERS

Support and advice for foreign investors

FIT, AWEX and **Brussels Invest & Export** each promote their own region: Flanders, Wallonia and Brussels. They have three main tasks, which they each fulfil in their own way:

1. Supporting exporters from the region
2. Informing, prospecting for and advising potential foreign investors
3. Promoting the region abroad

Besides tax incentives Belgian regions also grant companies significant financial incentives for such things as recruitment, training, R&D, investment, consultancy and environment protection.



FIT provides professional advice to all foreign companies that want to start or expand operations in Flanders. To make things even easier, FIT has a network of more than 90 offices abroad that can give advice. Their presence on the ground means that they know better than anyone what foreign investors need. More generally, FIT helps companies wishing to invest in Flanders to find the best location, get the right information and make the right contacts. It also offers assistance in applying for grants and other aid, and in understanding Flemish and national regulations etc.

www.flanderstrade.com

www.investinlanders.com



Wallonia.be

EXPORT
INVESTMENT

The Wallonia Foreign Trade and Investment Agency (AWEX) offers general expertise in international economic relations. This expertise extends from promoting Walloon exports to seeking foreign investment (helping find suitable sites, explaining support measures and tax rules, and providing information on recruitment and staff training, project funding etc). AWEX also provides a range of services to all Walloon businesses aiming to operate internationally. However it is also the partner of choice for all buyers, importers and foreign prospects who are looking for a partner in Wallonia and wanting to find products, equipment, technologies or services in the area. Outside of Belgium, AWEX is able to count on an international network of 109 financial and business attachés covering more than 120 markets and some 20 international organisations. These representatives are the key contact locally for any business or public body wanting to develop a business or partnership



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relationship with Wallonia or simply wanting to find out about the economic potential of such a relationship.

At the Walloon level, AWEX's main partners are in particular the centres of competitiveness and the technological clusters.

www.awex.be

www.investinwallonia.be



Brussels Invest & Export promotes foreign trade, assists Brussels companies, and attracts foreign investors to Brussels. It has built a database to help foreign investors with a specific project in mind find business partners in Brussels.

Brussels Export has a foreign network of some 88 economic and trade attachés. Some of these are shared with FIT or AWEX.

Invest in Brussels specifically offers companies the opportunity to test Brussels as a business location for three months, providing them with free office space, secretarial services, facilities and professional advice from experts on suitable locations, support facilities, sector-related issues and legislation at Brussels and federal level, among other things.

www.brusselsinvestexport.be

www.investinbrussels.com

BELGIAN FEDERATIONS OF INDUSTRY



No future without technology

Agoria is the partner of 1700 companies in the technology industry. The federation and its 200 employees provide members with information, services and advice.

Agoria is not afraid to leverage the strength of its members. The federation is involved in drawing up legislation at regional, federal and EU level to improve the position of tech firms.

www.agoria.be



Where chemistry meets life sciences

Essenscia is the multi-sector organisation for the chemicals and life sciences industries. It has close to 800 members, which together generated over 95% of the global industry turnover of EUR 61.1 billion in 2012 and employ 89,700 people. Essenscia is structured around 17 sectors.

The essenscia Polymers section represents plastics and elastomer producers.

Essenscia Brussels, essenscia Flanders and essenscia Wallonia, the three regional sections of essenscia, represent the regional and community interests of companies in dealings with the Brussels, Flemish and Walloon authorities.

www.essenscia.be

REGIONAL SECTORAL FEDERATIONS



Federplast.be is the Belgian association of plastic and elastomer article producers. As an umbrella structure for Agoria and essenscia, it represents 80% of the plastics and rubber processing industry in Belgium, with 254 companies that together employ 23,000 people and turn over EUR 8 billion.

www.federplast.be



Plastiwin is the Walloon plastics technology cluster. This expertise network focusing on industrialisation represents specialists in technical plastics and polymers, foams, composites, rubber and technical textiles. The complete value chain is present in the network: raw materials producers, convertors, integrators, recycling companies, equipment and mould producers, designers, R&D centers and training centers.

Its main mission is to boost its members' economic and commercial potential through innovation and collaborative projects. Research, innovation, business development and sustainable development are key concerns.

www.plastiwin.be



Flanders' PlasticVision is the competence pool for the plastics and rubber processing industry in Flanders. It is made up of two divisions: the technology centre (formerly the Vlaams Kunststofcentrum, VKC) and the innovative cluster.

Its partners are companies, universities, university colleges and research centres.

The main objectives are "coordinating joint development, setting up partnerships between companies, creating alliances and encouraging knowledge and competence creation".

www.plasticvision.be



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EUROPEAN SECTORAL FEDERATIONS



European Plastic Converters (EuPC) is the main industry association for plastics processing at European level, based in Brussels. The European network that depends on it exists to support the use of plastics throughout the world, especially to enable plastics processors to get their voice heard with regard to EU legislation.

The EuPC currently brings together around 51 plastic processing industry associations, representing almost 50,000 companies and 1.6 million employees, and producing over 45 million tonnes of plastics per year.

www.plasticsconverters.eu



PlasticsEurope is the only European industry association based in Brussels with representatives in the 27 EU member states. PlasticsEurope has developed close partnerships with sister associations that represent the production chain in Europe, which comprises 50,000 processors and over 1000 equipment manufacturers. PlasticsEurope is the official voice of European plastics producers.

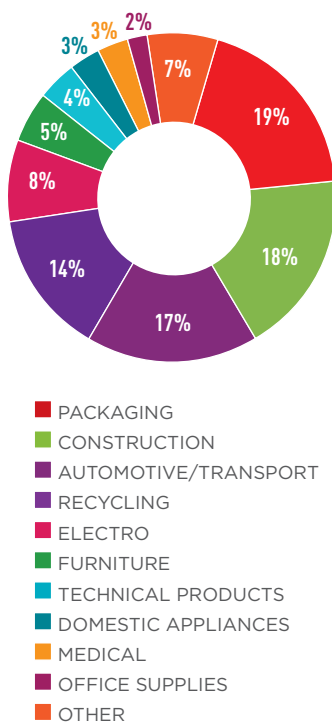
www.plasticseurope.org



3.2 FIELDS OF APPLICATION

Plastics and rubber are ubiquitous in our daily lives. They provide an effective, economical and ecological solution for a great many applications.

◆ Use of plastics in Belgium



SOURCE: Federplast (2012)

Packaging

The packaging sector is the main market for plastics. Packaging is the first point of contact between people and products. Plastic packages have their advantages, including low weight, safety, hygiene, protection and preservation. They also cost little and have a low environmental impact. Besides these qualities, packaging is a powerful marketing tool. It provides information to consumers and orients their choices.

Construction

Building materials are the second biggest application for Belgian plastics. Among the most common are insulation foam, piping, PVC profiles, ground and roof coverings, and glazing. Plastic meets the needs of the industry, especially in terms of longevity, resistance to corrosion, thermal and acoustic insulation, hygiene, ease of maintenance and durability.

Automotive

Automotive is the third biggest customer of the Belgian plastics processing industry in terms of tonnage, but the first in terms of turnover. The demands of the automotive industry – high performance, competitive pricing, design, comfort, safety, restricted fuel consumption, environmental impact, lightness – constitute a major challenge for designers. Today's car models contain no less than 100 kg of plastic. It is used in a wide range of parts, including body, engine, seats, armrests, hub caps and rear-view mirrors.

Medical

Plastic is relatively new in the health sector. Its biocompatibility with the human body is a key property. Originally used in orthopaedics, it is now used in many medical applications, even the most delicate such as surgery. The number of people in Europe aged 65 or over will double by 2060. Research in the health sector suggests that plastic has a promising future here.

Technical

Plastic provides the ideal insulation properties for electrical and electronic applications. An increasing amount of plastic is used in devices for information and communication technologies.

Many other sectors also use plastic, including domestic appliances, sport and leisure, agriculture and furniture.

The second chapter presents 15 interviews with Belgian companies representing the five main fields of application.



SUCCESS STORIES IN BELGIUM



SUCCESS STORIES IN BELGIUM

CATEGORY AUTOMOTIVE



Interview with
ir. Filip Kennis
Project Director Group

Headed by CEO Peter Creedon, Fremach is a large SME active in the automotive sector with branches in Belgium, the Czech Republic, Slovakia, Germany, France and China.

- Formed in 1969
- HQ in Diepenbeek
- Turnover in 2012 of EUR 130 million
- 231 employees in Belgium, 1,483 worldwide in the group
- 50% of all cars built in Europe include visible parts produced by Fremach

Fremach positions itself as a second-tier supplier to OEMs. The company is very broadly represented in the niche of decorated visible parts of car interiors and has a leading position on the Belgian market. There are no competitors in the Benelux. Fremach produces both small parts (including radio and air-con front panels, and steering wheel buttons) and large parts (including glove boxes).

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To keep jobs in Belgium in our industry you have to be able to produce in another country where labour costs are low.



Fremach was able to get by making radio front panels in Belgium into the 1990s, but the pressure on prices was ratcheting up all the time. In response, a branch was opened in the Czech Republic in 1999, followed by one in Slovakia, where wages were quite a bit lower. Says Filip Kennis, Project Director Group: "To keep jobs in Belgium in our industry you have to be able to produce in another country where labour costs are low."

Fremach's turnover tripled between 2009 and 2012. This huge growth over a short period was due to the acquisition by Elex group in 2006. There was also 15% annual organic growth. The goal now is to stabilise ahead of another leap forward.

TECHNOLOGY AND QUALITY MAKE THE DIFFERENCE

One of Fremach's strengths is that in terms of technology it offers customers the complete radio and air-con front panel. This is an exception on the market, which gives the company complete control over the process and guarantees great flexibility. Fremach also sets up competence centres in combination with production. There are partnerships with the University of Hasselt at Diepenbeek, Flanders Plastic Vision and Kunststoff-Institut Lüdenscheid, which sets the benchmark in the industry. Challenging technologies are developed and started at small sites in Belgium and Germany, for example. There's a lot of engineering capacity in Belgium, which we combine with low labour costs in Eastern Europe to produce our large projects that require a lot of manual work. With this blend Fremach is able to offer a high-tech product at a relatively cheap price to various - very often premium - brands. Filip Kennis, Project Director Group: "Fremach distinguishes itself with the technologies and the quality it is able to offer."

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Fremach distinguishes itself with the technologies and the quality it is able to offer.

INVESTMENT IN INNOVATIVE TECHNOLOGIES

For Fremach it's important to be the first to invest in and introduce new sustainable technologies. In doing so it can be a profitable company that adds a lot of value.

High-gloss UV-resistant lacquers have been the major trend on the European market over the past five years. Fremach was one of the first companies to get whole-heartedly on board. Today, there are high-grade in-mould labelling applications¹. Large scratch-resistant lenses are another trend where Fremach has a strong presence.

There is a future for innovative technologies. The company can continue to thrive in Belgium by heavily investing in machines, people and research to get these technologies up and running. The industry has to make the difference, take the opportunities and innovate. The investment policy must be determined on the basis of these factors. Fremach wants to establish closer, more pragmatic collaborations between universities, research institutes and companies, so that studies can be made available more quickly to the companies that need them.



¹ In-mould labelling involves a film being sprayed against a frame to give the end product the desired (colour) overprint



SUCCESS STORIES IN BELGIUM

CATEGORY AUTOMOTIVE



THE CARBON NANOTUBE SPECIALIST



- Formed in 2002
- Research partnership between the universities of Liège and Namur
- 50 employees, half of which work in R&D and technical support
- 44 patents held and 52 filed



Interview with
Michaël Claes
Global Technical Director



and
Dr Laurent Kosbach
Marketing Director

DEEP ROOTS IN WALLONIA

Formed from a productive partnership between the universities of Liège and Namur, Nanocyl SA is located in Sambreville, where it has its production plant, research centre and most of its sales force. The company, which is wholly funded by Walloon capital, is proud of its regional identity. Nanocyl is also supported among others by the Walloon Region and AWEX (the foreign trade agency that helps with industrial fairs and investments), with which it has a long-term relationship. "The Belgian entrepreneurial and industrial culture is favourable to the formation of a technology start-up," says Laurent Kosbach.

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Nanocyl invents and designs its own technologies, which ensures we have a unique position on the market.

Michaël Claes
Global Technical Director



FLAGSHIP PRODUCT: CARBON NANOTUBES

Nanocyl has become global leader in the production of carbon nanotubes (CNT). This revolutionary material is formed by individual carbon atoms arranged in hexagonal tubes, like Russian dolls. It offers a unique combination of chemical and physical properties at very low loading rates, as well as high electrical conductivity, thermal conductivity, mechanical reinforcement and fire resistance. Nanotubes bring out these performances in thermoplastics and thermosetting resins, liquid dispersions and rubbers, while protecting their intrinsic properties.

"The carbon nanotube enables the loading rate to be significantly reduced and to return to the fundamentals of the plastic, by intensifying such properties as mechanical aspect," explains Michaël Claes.

Nanocyl sells its nanotubes in powder form, as masterbatches of thermoplastics, aqueous solutions and base solvents. There are various fields of use, including cars, electronic packaging and a host of industrial applications, as well as energy applications, such as storage by means of various battery systems.

OWNER OF THESE TECHNOLOGIES

Nanocyl's activities are centred on research and development, which occupies a large percentage of the workforce. This group's long-term ambition is to demonstrate the benefits of CNT in other materials, such as metals and composites.

Intellectual property and product-process technological innovation are outstanding competitive advantages in the industry that Nanocyl has specialised in.

"Nanocyl invents and designs its own technologies, which ensures we have a unique position on the market. We develop both the production process and the material used to make the carbon nanotube. Our initial technological choice is accepted today, it is bearing fruit ten years later."

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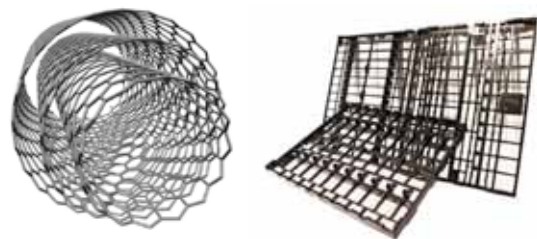
The Belgian entrepreneurial and industrial culture is favourable to the formation of a technology start-up.

Dr Laurent Kosbach
Marketing Director

THE EXAMPLE OF THE AUTOMOTIVE INDUSTRY

The key issue here is the need to make cars lighter by replacing metal with plastic, while protecting or even improving performance. Nanocyl distinguishes five levels of application for its products: the fuel supply system, the body, the engine compartment and temperature control in the engine compartment, interior heating and the problem of radiant heat.

"By expressing a technological need, our clients become genuine partners in development," says Dr Laurent Kosbach. "In the car context, we meet car manufacturers (OEMs) and we work with their subcontractors at all levels. Nanocyl wishes to support the whole project, throughout the value chain. That very clearly differentiates us from our competitors."



SUCCESS STORIES IN BELGIUM

CATEGORY CONSTRUCTION

deceuninck



The total built area in Hooglede-Gits is around 14.7 ha



Interview with
Tom Debusschere
CEO

- Formed in 1937
- HQ in Hooglede-Gits
- Turnover in 2012 of EUR 556.9 million
- 2,800 employees, including 600 in Belgium
- Average annual capital expenditure: EUR 25 million
- Annual R&D investment 2%
- Enterprise of the year in 2004
- PVC window & door systems account for 88% of sales, with the rest generated by roofline and cladding, outdoor living and interior applications

When Benari Deceuninck started a plastic processing firm alongside his printing press and stationery shop in 1937 he laid the foundations for what would become Deceuninck. The business grew as a family firm, but day-to-day management of the company has now passed to an outsider, with Tom Debusschere taking on CEO duties. Deceuninck has grown into a multinational listed on the Brussels stock exchange.

The company sells its products in more than 75 countries and has 10 production sites around the globe. Deceuninck is market leader in Belgium, France, Turkey and the Czech Republic, and number three worldwide.

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Glass fibre-reinforced PVC is cutting edge technology; it demands proper expertise.



In 2009 Deceuninck experienced a company crisis. The company was revitalised after restructuring and has operated at a profit ever since. Current growth markets are the United States and Turkey, which continues to perform well and is gradually emerging as an export hub for new growth markets. Subsidiaries were recently opened in India and Chile, of which much is expected. The plans are on the table for the construction of a new site in Turkey to meet the rising demand. The strong growth in the United States and Turkey partly offsets the stabilisation in the European regions.

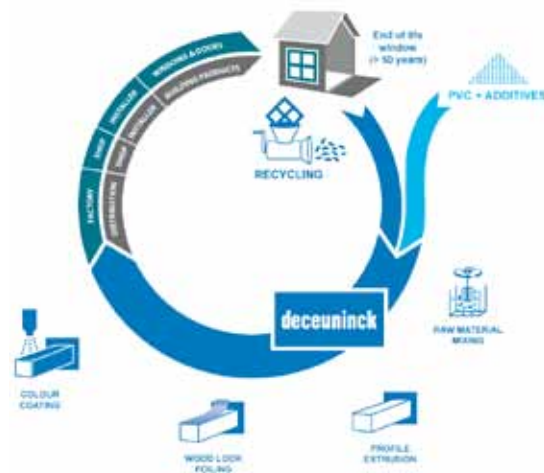
Hooglede-Gits and Diksmuide (where Deceuninck has its own raw materials and recycling plant) function as knowledge centres in Belgium with regard to the design, production and installation of windows, the extrusion process and colour finishing, and of course raw materials. Tom Debusschere: "Glass fibre-reinforced PVC is cutting edge technology; it demands proper expertise." In addition to its logistical assets, the great advantage Belgium has is the cluster of knowledge.

BUILDING A SUSTAINABLE HOME. INNOVATION, ECOLOGY, DESIGN

Deceuninck is market leader in colours. It is the only company in the sector that supplies coated profiles to window manufacturers. In 2012 Deceuninck invested in a fully automated line for 360° coating. Deceuninck feels there's no reason why PVC should not look nice. The innovation is in the profile, the design in the colour and the finishing.

The company's glass fibre technology is also unique. The standard way to reinforce PVC windows is by using steel. Glass fibre-reinforced windows like the ones Deceuninck produces have better insulation values and weigh 40% less than steel-reinforced windows, which makes things easier for installers, for one. The environmental impact in terms of material consumption and CO₂ footprint is also much lower.

"All our innovation efforts go into design and improved insulation at lower material consumption," explains Tom Debusschere. The company plans to develop as many new and sustainable innovations as possible through the intelligent use of plastics.



100% RECYCLABLE: A CLOSED LOOP

The advantage of plastics is: they last forever. They are lightweight and they offer the best insulation at an affordable price. It's possible to develop elegant solutions to all kinds of engineering problems. Tom Debusschere: "Plastics and PVC are not problems, they are solutions." In that regard, tighter environmental controls are beneficial. They generate opportunities to create products from compliant materials in the internal EU market much faster than non-EU producers can.

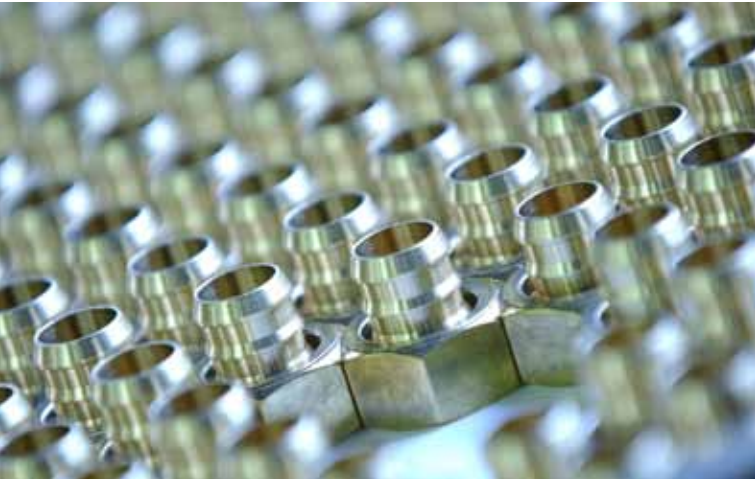
Deceuninck has taken full advantage by setting up its own PVC recycling plant for end-of-life PVC windows, roller shutters and cladding. The windows from the late 1960s and 1970s are only now being returned for recycling as homeowners replace single with double and even triple glazing. This process should be able to run at full capacity three years from now. It's hoped that some of the materials needed will come in via this channel once the volume of old PVC windows starts to rise.

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Plastics and PVC
are not problems,
they are solutions.

SUCCESS STORIES IN BELGIUM

CATEGORY CONSTRUCTION



Interview with
André Rosseel
CEO

- Formed in 1965
- 25 employees
- Head office in Laeken and plant in Anderlecht
- 30% exports
- Constant growth of around 7% for the past decade

FLEXIBLE PRODUCTS...

Indumat is specialised in the development, production and distribution of flexible tubes for water, gas, air hydrocarbons and some food products.

The company defines itself as a connection expert. Flexible tubing is ubiquitous in the home, connecting appliances to systems (sanitary, heating, ventilation and more). "Our clients want to buy peace of mind, convenience and safety," says André Rosseel. Indumat's client retention rate exceeds 80%.

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Our clients want to buy peace of mind, convenience and safety.

... IN A FLEXIBLE STRUCTURE...

Indumat employs eight permanent members of staff and draws on a workforce of 10-15 people within the framework of a social project for large production runs. It also develops carefully selected subcontracting partnerships, not for products that can be brought to market directly but exclusively for components.

"The way we are able to adapt to the demands of our clients is a strength of ours." Indumat displays great flexibility – most products are made to order. "What's important for us is being able to stay in control of our tools and enable the market to benefit from our knowhow, which goes back almost 50 years." Indumat also plays the role of technical consultant. "We don't just sell a product, we sell a service. We sell solutions to technical problems."

THE BRUSSELS ADVANTAGE

"When we came back from Africa my father worked in an automation chain for Volvo in Ghent. Belgium was renowned for its automotive industry at that time," explains André Rosseel. But he formed Indumat in Brussels in 1965. "Brussels offers a certain degree of neutrality, notably in terms of the language. We could take advantage of the name on the international stage."

Indumat has always appreciated the support of the Brussels Capital Region, which has been twofold: consultancy assistance to develop partnerships with laboratories and assistance in sales canvassing for Latin America.



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We don't just
sell a product,
we sell a service.
We sell solutions to
technical problems.

R&D AND EXPORTS

Scientific collaboration with universities and laboratories is essential to be able to test products and give guarantees to clients. "That's all the more important in a field characterised by potential threats like the risk of gas explosions or water contamination." Bearing in mind the strong competition, in the future Indumat will focus on making articles from composite materials or fluorinated products more sophisticated. "State-of-the-art high-tech products is where we'll have to fight our corner going forward," says André Rosseel.

Indumat exports 30% of its production, half of it outside Europe. Its primary export market is France (25% of total exports), for which it has developed a specific strategy, including working to obtain French certifications. It already has a certificate of sanitary compliance, as issued by the French health ministry.



SUCCESS STORIES IN BELGIUM

CATEGORY CONSTRUCTION



Interview with
Stéphane Dalimier
Business Unit Manager

- Founded in 1950 by Gert Noël
- Main office: Eynatten
- Net turnover: EUR 183 million in 2012
- 21 sites, including 11 production sites and distribution centres
- 1,200 group employees, 500 in Eynatten
- Over 90% exports
- R&D: 3% of turnover and 40 employees

NMC is an international company that has a leading position in the development, production and sale of synthetic foams. The product range targets fields as diverse as interior and exterior decoration, insulation, manufacturing, packaging, automotive, and sport and leisure. NMC is splitted into five business units: Architecture & Design, Insulation, Nomafoam-Technical Foams, Do-It-Yourself and Nomawood, a recent addition.

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On average,
NMC founds or acquires
one new company
every year.



WHERE THREE COUNTRIES MEET

Gert Noël, who founded NMC in 1950, started out cutting foam blocks to shape in his garage to make sponges. NMC is located a few kilometres from the point where Belgium, the Netherlands and Germany meet. The naturally multicultural company constantly adapts to the demands of peripheral markets. Exports account for more than 90% of business and NMC runs 21 sites as well as an extensive network of dealers around the world. The constant expansion of the group has proven necessary to adapt to client demand and serve them locally. Stéphane Dalimier says that 430 orders and the equivalent of 50 trucks leave the Eynatten site every day.

The group has grown in Europe, especially Scandinavia. "On average, NMC founds or acquires one new company every year. This expansion enables us to gain additional skills. As the European leader in plastics and foam processing, our aim is to remain at the cutting edge and ensure the support of local agents and a relatively big client portfolio."

APPLICATIONS IN CONSTRUCTION

NMC has quite a sizeable range of applications in construction, both inside and outside the building. These include pipe insulation for heating and sanitary or air conditioning applications, mouldings and ceilings centers, underlays for wooden floors, façade moulding for the exterior and UV-resistant patio sections. The main challenge in construction is developing solutions that ensure optimal insulation, be that thermal or acoustic.

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Research is a key development factor for NMC.

NMC GOES GREEN

"Research is a key development factor for NMC," says Stéphane Dalimier. The group's R&D centre in Eynatten accounts for 3% of the budget and employs 40 people. The focus is on the use of new raw materials. NMC regularly presents new products based on innovative technologies. In 2012 NMC was the first European player to launch a range of articles based on a certified organic raw material: Biofoam®.

Energy consumption is one of the factors influencing cost for NMC. Economy and ecology go hand in hand, which is why all electricity used on the Belgian site is generated by renewable wind power. NMC also works with solar power, installing solar panels on the roof of the storage and production halls.



SUCCESS STORIES IN BELGIUM

CATEGORY CONSTRUCTION



Interview with
Luc Castin
*SolVin Executive Vice President,
Head of General Purpose Vinyls Business*

FROM A EUROPEAN PLAYER...

Through its Chloro-Vinyls business unit and its SolVin subsidiary, Solvay is one of the leaders in the European PVC sector. In January 1999 two chemicals giants, Belgium's Solvay and Germany's BASF, set up SolVin, a joint venture focusing on vinyls. SolVin is now Europe's second biggest PVC producer, with 1.3 million tonnes of vinyl products per year. Production at the three Belgian units in Lillo, Zandvliet and Jemeppe widely exceeds domestic consumption. Belgian export flows are therefore very consistent. "Although differences remain between countries, the PVC market in Europe must be considered at a larger scale," says Luc Castin.

SolVin key figures:

- 1,400 employees in Europe
- 1.3 million tonnes of vinyl products per year
- Main products: Polyvinyl Chloride (PVC), Caustic Soda (NaOH), Chlorine (Cl₂) and Hydrogen (H₂)
- Turnover: over EUR 1.2 billion per year
- 3 production sites in Belgium (Lillo, Zandvliet and Jemeppe)
- 7 production sites, 8 sales offices and 2 R&D centres in Europe

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Two key points will impact our competitiveness: access to raw materials and cheap energy.



... TO A GLOBAL PLAYER

PVC is material used widely in construction such as high insulation window frames, fresh water pipes and others. "In the current crisis of the European construction industry, it's essential that we keep the ability to market our products competitively outside Belgium. By this we ensure that our production runs at maximum efficiency and we can sell volumes not consumed in the EU on export markets," explains Luc Castin. Outside Europe, SolVin sells a major part of its production on markets where PVC consumption is growing: Russia, Asia and the Middle East. "Two key points will impact our competitiveness: access to raw materials and cheap energy." Shale gas developments in the United States are leaving our industry with a very significant disadvantage compared to the American petrochemicals industry.

In May 2013 the chemicals groups Solvay and Ineos announced the intention to integrate their European chloro-vinyl activities in a 50/50 joint venture. The aim is to create a global player that can challenge current leaders worldwide, like Shintec and Formosa. Combined turnover would be EUR 4.3 billion and production over 3 million tonnes per year. Luc Castin stresses the large potential for generating synergies between the two companies, which complement each other in many areas. Geographically, they have 17 production sites covering 9 countries. The new entity will have a stronger presence on the European and world stage.

PVC, PERMANENT DEVELOPMENT

"The paradox of PVC is that it's a material that has achieved a certain degree of maturity and yet is still evolving in many applications," says Luc Castin. Considered to be a commodity, it has become indispensable and has made big contributions to improving people's standard of living. Thanks to its technical performances, cost efficiency and long term sustainability, PVC is used in highly diverse and innovative fields. Luc Castin mentions rigid foams for wind turbine blades, sealing for cars and latexes for coating fibreglass as state-of-the-art examples.

"Bathing in the culture and industrial heritage of Solvay, SolVin is a company that sees its long-term

future at the cutting edge. Its philosophy is to stay close to its clients and end markets, to understand the needs which drive the development of new products."

This dynamic has been highlighted in the recent 5th edition of SolVin Awards, rewarding the best innovations in the PVC industry.

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The paradox of PVC is that it's a material that has achieved a certain degree of maturity and yet is still evolving in many applications.

THE VINYLOOP® REVOLUTION

"One of PVC's advantages is the ease with which it can be recycled," says Luc Castin. Currently, over 360,000 tonnes of PVC are recovered annually in Europe. To process the most difficult waste, SolVin has developed VinyLoop®, a technology for recycling PVC composite waste by selective dissolution, which separates the PVC from other materials (fabric, wood, metal, fibreglass). The end product is a high-quality PVC powder that can be used to make new products. Increasingly, then, PVC plastics technology is becoming a circular economy.

VinyLoop® has a much smaller ecological footprint than a new PVC compound, with water consumption 76% lower, energy consumption 47% lower and GHG emissions 40% lower. Among the many examples of deployment, VinyLoop® was selected to recycle part of the membranes covering the roof of the Olympic Stadium in London.

The European industry has undertaken to reuse 800,000 tonnes of PVC by 2020 through VinylPlus.



SUCCESS STORIES IN BELGIUM

CATEGORY MEDICAL



- Formed in 1994
- Located at the Liège Science Park in Angleur
- 45 employees
- 600 sq. m of clean rooms
- Turnover: EUR 4.5 million (2012)



Interview with
Jean-Philippe Diels
*Human Resources and
Communication*



and
Paul Macors
Managing Director

Medi-Line is a people company that was formed on the back of a private initiative specialised in the development, engineering and manufacture of disposable plastic devices for the medical and pharmaceutical industry.

PARTNER OF MAJOR PLAYERS ON THE MEDICAL DEVICE MARKET

At this time, Medi-Line is mainly active in subcontracting and does not market any products under its own name.



Medi-Line enjoys limited visibility, but has global reach.

Paul Macors
Managing Director

Its clients are among the most prestigious names in the medical and pharmaceutical industry, including General Electric, Johnson & Johnson, Kimberly Clark and Olympus. "It's paradoxical," explains Paul Macors, "Medi-Line enjoys limited visibility, but has global reach." Benefiting from exclusivity at its main clients, Medi-Line can pride itself on the fact that it has access to the biggest global markets and its products are used everywhere. "It would require huge sales efforts to be able to reach 80% of the global market ourselves." But that's not all, because Medi-Line also partners with or supplies smaller clients like innovative SMEs and university spin-offs.



STATE-OF-THE-ART CLEAN ROOMS

Medi-Line runs two clean rooms with a combined floor space of 600 sq. m to ensure it meets the very stringent regulatory demands with regard to environmental conditions. Pressure, temperature and humidity are constantly controlled. The ambient air is filtered and recycled forty times an hour.

The equipment needed to produce plastic components, such as injection presses, extruders and thermoformers, are also kept in clean rooms and their products meet the highest demands in terms of quality and safety.

Employees must follow strict rules, including a ban on jewellery and makeup, the need to wear special clothing, the requirement to clean and disinfect hands several times a day and a double entrance door... Assembly, finishing and packaging are mainly done by hand in the clean room, as the limited product volumes do not justify extensive task automation.

Medi-Line is subject to many quality checks and audits conducted by its own clients and by its clients' clients.

TECHNOLOGICAL INNOVATION

"The technologies we use are identical to those used in traditional plastics processing," explains Paul Macors. But at Medi-Line they are used much more thoroughly to obtain very precise applications. For example, the catheters that come off the extrusion lines have a variable section or a series of lumens with exterior diameters of up to 0.25 mm. The innovation here is in the level of miniaturisation and connectivity specially designed for medical applications and the comfort of the patient.

The company has no direct contacts with the final patient. Nevertheless, it does want to get involved in the value chain as early as possible and its New Product Development department works closely with clients on the design of new products. To ensure that viable economic and technological decisions are taken during production, development and manufacturing are done at Medi-Line.

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In the medical sector you cannot afford to have a certain percentage of defective products.

Paul Macors
Managing Director

HUMAN SPIRIT FOR HUMAN ENDS

"In the medical sector you cannot afford to have a certain percentage of defective products," explains Paul Macors. "The bar is set high, 100% quality is demanded. Ultimately, the health of patients is what our products are judged on." So rigour and precision are fundamental values. There's no specific qualification new hires need to have to be able to work in the clean room. The permanent training they receive is given exclusively in-house.

TWO KEY PROJECTS

Medi-Line is involved in an ambitious four-year multi-disciplinary heart surgery project supported by the Biowin cluster. It was chosen to drive this project, which benefits from the support of the Walloon Region. The Liège-based SME also aims to produce and market its first Medi-Line branded product in the near future.



SUCCESS STORIES IN BELGIUM

CATEGORY MEDICAL



Interview with
Steven Cuypers
CEO

- Formed in 1991
- HQ in Wijnegem
- Turnover in 2012 of EUR 15 milion
- 45 employees in Belgium, 60 worldwide
- 2011 Export Lion Award



Our investment level is very high, which is why we continue to grow.

Orfit Industries was formed in 1991 as a spin-off from Luxilon Industries. CEO Steven Cuypers took the reins of this family SME with sales offices in France and Germany, and a subsidiary in the United States. The core activities of Orfit Industries are research, development, production and processing of plastics exclusively for the medical industry. Orfit is especially active in three market segments: rehabilitation with splinting materials, orthotics with prosthesis sleeves and radiotherapy with immobilisers for cancer patients receiving radiation treatment. The products are supplied as semi-finished products to the medical professional, who subsequently adapts them to the patient's anatomy by means of thermal remodelling. This adds value for the patient and the medical professional in the form of improved functionality and greater comfort. New product specifications and developments that benefit quality are constantly being sought.



ALL PROCESSES UNDER ONE ROOF, FROM RESEARCH TO INNOVATION

Orfit Industries distinguishes itself from competitors by offering the entire cycle of research, development, production, distribution and training under one roof. R&D generates innovative products that can be brought to market. One of the products for which the final clinical verification is being carried out is a new nanotechnology-based plastic that enables much thinner materials to be made with the same or improved functionality compared with existing materials.

But innovation is not restricted to products, it also drives improvement in production. Orfit, for instance, uses innovative production methods, state-of-the-art machinery and verification software in production. So there's a big investment in raising efficiency on the shop floor. "Our investment level is very high, which is why we continue to grow," explains CEO Steven Cuypers. An annual investment schedule is applied: 14% of turnover was invested in R&D in 2012 and 23% growth was achieved compared with 2011.



IMPRESSIVE EXPORT FIGURES

Orfit Industries exports large volumes to a whole host of countries (93 in total, including most recent additions Myanmar, Sudan and Afghanistan). 98% of turnover is generated on foreign markets, where sales generally go through exclusive distributors in each segment. "The combination of export and innovation is a very strong driver of economic growth that is still underused in Belgium," says CEO Steven Cuypers.

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The combination of export and innovation is a very strong driver of economic growth that is still underused in Belgium.

Orfit is number two in the industry globally – number one in Belgium and Europe. In Asia, where there is emerging Chinese competition it has 25% market share. An action plan has been drawn up in response. One part of that is the formation of Orfit Industries Asia in Hong Kong. Orfit is also keen to enter the Brazilian market by means of a joint venture. This is part of the strategy to set up compact product processing flows abroad. Even before the product reaches the distributor, the total cost when exporting from Belgium to Brazil is twice as high as it would be if it were produced over there.

In any case, considerable growth will be achieved over the next few years. The population is increasingly exposed to the products as the number of cancer patients rises due to ageing and improved screening possibilities. Better treatment also implies that more patients are treated. The international trend for increased cancer-related investment also contributes to growth going forward. Modernising cancer treatment allows Orfit Industries to exercise an important quality function worldwide for both public and private investors.



SUCCESS STORIES IN BELGIUM

CATEGORY PACKAGING



Interview with
ir. Joris Vrancken
Managing Director

- Formed in 1938
- HQ in Wellen
- Turnover in 2012 of around EUR 70 million
- Over 400 employees spread over 3 sites in Belgium, France and Poland
- French packaging Oscar Award in 2003
- Limburg environment and sustainable business charter 2012

Joris Vrancken, Managing Director of ANL Plastics, says there was a grain mill operating on the site before 1900. It was turned into a saw mill to make crates for the Limburg fruit industry. It was the beginning of the move into packaging. In 1938 the family business was registered as a private limited company. The first generation of the Neven family realised that plastic was the future not timber, and the firm duly started blazing a trail in the plastics industry from 1958.

ANL Plastics is now the dominant player in three segments of the European plastics processing market: mould making, extrusion and thermoforming. Unlike the other two, which are consolidated in Wellen, thermoforming is also done in France and Poland. The French facility has been operational for 23 years. The Polish facility came on stream 30 months ago to serve the eastern European market (including Slovakia, Hungary and the Czech Republic) and is growing fast. Once the Polish site is considered strong enough, work will start on the next satellite to open up new areas of the continent. Romania, Bulgaria and Russia are being looked at. Market expansion is clearly the plan. The foreign sites are important to the growth of the company and guarantee a good supply to the European market where ANL Plastics is a top 10 player in thermoforming.



PRODUCT DEVELOPER FOCUSED ON RECYCLING

ANL Plastics opened its own recycling department in 1977, a milestone in the company's growth. Waste is an inherent part of the process and having the ability to recycle and reuse it is a huge advantage.

The company also works constantly to meet the market demand for less packaging by means of new product developments. Plastic has negative connotations in the market because plastic packaging is thrown away. Yet it offers us added value in two ways: it protects the product and extends the shelf life of food. Not forgetting that food safety has become a very important European standard. That is not a competitive disadvantage. Joris Vrancken can only concur: "If there were no plastic packaging food would go bad much quicker, which is much more expensive and harmful than the use of packaging."

CREATING MORE ADDED VALUE

It's important to invest in research and development when 90% of the market is food-related. The sector is dominated by retailers that put huge pressure on prices. There is massive competition. The price can be improved by developing concepts that create more added value for customers. Every year, 350 customer-specific products are developed in the plant. ANL Plastics itself endeavours to develop and bring to market one or two original concepts every year. Most of the technology is patented. These concepts are personalised at a later stage. Design is sometimes a subject of innovation at ANL Plastics, in association with design agencies.

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The product itself is no longer the source of added value in the simple products. There are a hundred suppliers, but they don't always provide service, quality and development power.

The sources of ANL Plastics' added value are service, diligence, flexibility and passion in development. It has a large development department that is able to respond to demands from the market very quickly. ANL Plastics can get a new product ready within a week if needed. In other words, ANL Plastics is very focused on customers. The score in the customer satisfaction survey is well above the benchmark. "The product itself is no longer the source of added value in the simple products," says Joris Vrancken. "There are a hundred suppliers, but they don't always provide service, quality and development power." Adding: "Despite the fact that we are perhaps a little less cheap in Belgium due to labour costs, we can make up for that with service, which for me is the only way to survive here". The majority of production is accordingly exported from Belgium.



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If there were no plastic packaging food would go bad much quicker, which is much more expensive and harmful than the use of packaging.

SUCCESS STORIES IN BELGIUM

CATEGORY PACKAGING



Interview with
Alain Cruysmans
CEO

- Formed in 1968
- 6 employees
- Located in Forest
- 20% exports

“

In a very small structure like our own, everyone is an all-rounder.

A NICHE ACTIVITY

Celprom produces plastic articles in small and medium-sized production runs. This compact SME works exclusively to order, an increasingly uncommon practice in Belgium.

The majority of clients are industrial companies, with demand in the domains of display marketing, technical components and packaging. Each order is a one-off – routine is not part of Celprom's daily experience.

“In a very small structure like our own, everyone is an all-rounder, which means we can respond fast and guarantee very short lead times,” explains Alain Cruysmans, while asking his secretary to help him place a sheet of plastic in the milling machine. “We do everything in house, including designing the thermoforming moulds. We are able to work flexibly, which is a great advantage.”

Celprom works on every aspect of the projects, from prototyping to delivery, including production, assembly and packaging. Alongside this, Celprom also represents a French company that manufactures injection-moulded suitcases. Celprom's added value there is their thermoformed or foam interior.



EXPORT DRIVEN BY WORD-OF-MOUTH

Exports account for 20% of turnover. Foreign partners are exclusively European: Switzerland, the Netherlands, Luxembourg, Italy and France. "We would like to grow our export business further, but it's not easy for an SME like ours, which does not have any commercial organisation. Alain Cruysmans adds that customers arrive at Celprom primarily through word-of-mouth. "We capitalise on our reputation, bolstered by 45 years of experience."

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Relocation is an expensive business. Celprom prefers to invest in machining and technology.

PERMANENT DEVELOPMENT

Celprom recognises that the central location of Brussels is an advantage. Many plastics raw material and accessories suppliers are easy to reach. Celprom was formed there in 1968. The firm moved to the present site in Forest – a huge 900 sq. m facility – thirty years later.

A structural investment to fit out offices upstairs is envisaged in the medium term to free up more space for the warehouse. "Relocation is an expensive business. Celprom prefers to invest in machining and technology."

To be able to design increasingly high-tech components and diversify, Celprom recently acquired three brand new machines: a digital milling machine, a folding bench and a thermoformer. "We will start recouping the costs in 2014."

Celprom has also entered negotiations to acquire another company active in thermoforming, but specialised in medium and large production runs. "We could be interested in this market as a complementary activity, as we have been contacted by a client with this type of demand."

Projects depend on the economic situation and how quickly investments can be recouped. "In any case, we have no alternative but to invest. Today's economy is such that you will be knocked out of the market if you do not use the latest technologies."



SUCCESS STORIES IN BELGIUM

CATEGORY PACKAGING



Interview with
Yuri Sloutzky
Public Relations Manager

- Not-for-profit formed in 1994
- 50 employees
- 5,200 members (packaging managers)
- Annual budget: EUR 130 million
- 74,240 tonnes of plastic recycled in 2012

Fost Plus is a not-for-profit organisation with a general interest role. It was formed in 1994 on the initiative of companies marketing packaged products, the "parties responsible for packaging". Accredited by the three federal regions of Belgium, associated in the Interregional Packaging Commission, it works to promote, coordinate and fund the selective collection, sorting and recycling of household packaging waste. A recycling rate of 88.4% was achieved in 2012, putting Belgium among the frontrunners in Europe. For plastics, the results were 37.3 %, well above the minimum levels imposed by the EU packaging directive 94/62/EC (22.5%) and Belgian law (30%).

KEY PIECE IN THE PUZZLE

"The viability of the system is ensured by good cooperation between all parties involved in the packaging business," explains Yuri Sloutzky. Fost Plus is the linchpin in a huge network that includes its members and end consumers, but also the public authorities, inter-municipal associations, waste collectors, sorting centres and recyclers.

It has a budget of around EUR 130 million per year. Fost Plus has two complementary sources of funding: the contributions of members (parties responsible for packaging), which are based on the type and quantity of packaging used, and sales of the collected materials on the recycling market.

PREVENT, COLLECT, SORT, RECYCLE

Fost Plus is active in a number of areas. First of all, it works to prevent unnecessary packaging on the market. It also commissions the inter-municipal associations to manage three flows of selective waste collection – glass, paper and cardboard, and PMD (Plastic bottles, Metal packaging and Drinks cartons). Fost Plus then sells the collected materials to recycling companies by means of a tender



procedure. More than 70% of the waste remains in Belgium, while the rest is exported, mainly to other European countries. "The quality of sorting and of our services contributes to the excellent reputation enjoyed by the Belgian system of selective collection and recycling," says Youri Sloutzky.

The quality of sorting and of our services contributes to the excellent reputation enjoyed by the Belgian system of selective collection and recycling.



PLASTIC BOTTLES, A KEY ISSUE

Plastic bottles, which are the only plastic articles collected as PMD waste, account for over 40% of all plastic packaging. The choice of this sorting message is vindicated by the effective recycling possibilities it offers. There is a large flow of continuous, homogenous material.

The recycling converts the waste into new raw materials, which enables considerable savings in terms of energy and virgin raw materials. So, for example, PET bottles are processed into textile fibre and new bottles. HDPE bottles are used to make pallets and drain pipes.

Fost Plus has studied the option of enlarging PMD collection to include other families of plastics. These do not currently adequately meet the quantitative and qualitative criteria for efficient recycling. "The environmental benefits do not justify the huge additional cost," concludes Youri Sloutzky. That being said, Fost Plus is keeping a close eye on developments in the world of packaging and recycling, which could impact the economic and ecological parameters of a scenario for the enlargement of collected fractions.



SORTING "EVERYWHERE, AT ALL TIMES"

95% of Belgians say they sort their household waste. The challenge now facing Fost Plus is to reproduce these good instincts outside the home too. It has launched various initiatives, relying on a standardised message, albeit adapted to the specific target groups – schools, sports clubs, youth associations and companies. The initial results are positive, with over 1,000 tonnes of PMD waste collected from companies in 2012. The ultimate goal is to create a situation in which waste is sorted everywhere at all times.

BELGIUM, A MODEL STUDENT

Thanks to the efforts of Fost Plus, Belgium has a leading position in selective collection and recycling of household packaging within the European Union. The Fost Plus system is based on the principle of extended producer responsibility (EPR), which entails producers taking responsibility for managing the end-of-life of their products. At Belgian level, Fost Plus has opted for the effective responsibility of producers by involving them closely in the decision-making process governing the use of their financial contribution. It is certainly one of the keys to the Belgian success.

Fost Plus has also joined EXPRA (the Extended Producer Responsibility Alliance) to defend the Belgian model on an international scale and help prevent EPR becoming a cash cow to the detriment of the vision of society it is supposed to support. "Another way of publicising the Belgian system is to take on the role of advisor in countries that want to launch their own EPR system for household packaging waste," says Youri Sloutzky.



Another way of publicising the Belgian system is to take on the role of advisor in countries that want to launch their own EPR system for household packaging waste.



SUCCESS STORIES IN BELGIUM

CATEGORY PACKAGING



Interview with
Michèle Franckx
Marketing Director Sabert Europe

- Formed in the USA in 1983
- Located in Nivelles since 1990
- 100 employees (35 white collar, around 65 blue collar)
- 86% exports
- Winner of several Gazelle awards
- BRC-certified

Sabert Corporation is a group specialised in the production and sale of complete food presentation and packaging solutions, as well as high-quality disposable tableware.

It defines three client profiles: Food Service (caterers, fast-food chains, organisations), Retail (especially Mozaik disposable tableware) for large distribution chains and Cash & Carry, with a specially designed range of practical, attractive packaging.

As a producer and a vendor, the group is able to monitor the quality of its products at all times. It complies with the BRC standard, which sets out the demands with regard to food safety.

GLOBAL COVERAGE

Formed in the USA in 1983, Sabert now has three stateside production facilities in Sayreville (New Jersey), Riverside (California) and Shepherdsville (Kentucky). Sabert Europe was formed in Nivelles in 1990, while Sabert China was formed in Zhongshan in 2006. The products of the Sabert group, which has sites on three continents, adorn buffets and tables around the world. 86% of the Belgian site's production is destined for export, mainly to France, the United Kingdom, Germany, Switzerland, Italy, the Netherlands, Spain and the Russian Federation.

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Belgium remains a very attractive market for testing new articles, because it is highly representative and multicultural.



Belgium is a market of modest potential compared to neighbouring countries like France. "Let's take a fast-food chain by way of example," says Michèle Franckx. "For the same initial investment, we can reach in excess of 500-1,000 points of sale in France compared with just 150 in Belgium. That said, Belgium remains a very attractive market for testing new articles, because it is highly representative and multicultural. Plus we can maintain direct contacts with our Belgian clients, we can visit them, discuss with them, talk face-to-face, better understand their needs and expectations."

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Not everyone considers plastic to be a sustainable material and it is still the subject of a lot of debate.

ECO-RESPONSIBILITY

The Sabert group introduced the Be Pulp brand in 2011, rolling out a range of food packaging and tableware that is certified as compostable in accordance with the EN 13 432 standard.

The raw material used in the biodegradable packaging comes from bagasse, a fibrous residue left when the juice is extracted from sugar cane. China, a big producer of sugar cane, is the only country in the world currently recovering bagasse, which is usually burned.

That means that Be Pulp benefits the environment in two ways: through a reduction in carbon emissions and, post-use, due to its biodegradability.

Sabert wants to reduce its carbon footprint not only in terms of its products but also throughout the production chain. The skeletons used in thermoforming are ground down and returned to the production cycle to minimise waste. All waste is meticulously sorted and sold on where possible. Low-energy equipment is deployed and Sabert has opted for green energy.

"Not everyone considers plastic to be a sustainable material and it is still the subject of a lot of debate. The carbon footprint, and not just the product as such, needs to be taken into account," says Michèle Franckx.

PROSPECTING

Sabert Europe now has a nine-person sales force working many different parts of Europe. Germany and the Nordic countries are among those markets with strong potential.

To enhance its visibility Sabert is looking for alternative channels to traditional fairs and shows, which are "expensive and no guarantee of results" and is considering focusing on communication networks. The group is currently working on its European website (www.sabert.eu), which it expects to go live within the next few months. Until then, the US website is accessible (www.sabert.com), alongside a stripped-down version in French and English where European clients and prospects can find out about Sabert Europe products and download catalogues. Michèle Franckx says that online sales cannot be excluded.



SUCCESS STORIES IN BELGIUM

CATEGORY TECHNICAL



- Formed in 1933
- Located in Tielt
- 2,500 employees worldwide spread over 40 sites
- Around 10% annual growth
- 85-90% of products are exported



Interview with
Ivan Meersman
CEO of Quadrant CMS



and
Petrus van Damme
*CEO Europe, Middle-East
& Africa of Quadrant EPP*

Quadrant is a multinational that started out in 1933 as a local sole proprietorship run by Robert Tavernier. The knowledge the founder and plastics trailblazer built up and shared with his employees, who in turn founded various companies in the region, turned West Flanders into a European plastics powerhouse and paved the way for industrial renewal.

DSM, a Dutch company, acquired the family firm at the beginning of the 1970s. It had already taken on a European dimension by then, with branches in France, Germany, the United Kingdom and Italy, but after the takeover it went global.

In 2000 Swiss group Quadrant acquired the business from DSM. Today, as part of Mitsubishi Plastics Inc. (MPI) Quadrant comprises Quadrant EPP, whose core business is semi-finished products, and Quadrant CMS, which focuses on development, injection moulding and assembly.

Quadrant has 40 branches worldwide, spread over various continents. The group employs 2,500 people, half of them in Europe, with the rest split over North America and Asia. 85-90% of products are exported.

PARTNER IN TECHNICAL SUPPORT

Much of Quadrant EPP's expertise is in engineering plastics specialities used in aerospace, heavy duty, food and the medical sector. As international market leader the company offers a large range of products of consistent quality across the globe. The bulk of exports is made up of semi-finished products. A large part of global production capacity and the biggest logistics centre are in Belgium. Petrus van Damme:



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Why does a customer use plastic rather than metal? Because it has unique properties and it's a durable material. For industrial uses it's important that the total cost of ownership of an application over the whole life remains low.

Petrus van Damme
CEO Europe, Middle-East & Africa, Quadrant EPP

“Why does a customer use plastic rather than metal? Because it has unique properties and it's a durable material. For industrial uses it's important that the total cost of ownership of an application over the whole life remains low.”

Quadrant CMS is specialised in the design and development of plastics products and systems for its customers. The moulds are designed and produced, followed by injection moulding, assembly of parts and global logistics. In other words, Quadrant CMS is a full-fledged development partner. 30% of the Belgium-based workforce works on new developments. Only function-critical parts are made, for automotive (car safety), food & beverage (see beer barrel photo), medical, E&E and industrial uses.



Plastic beer barrel specially developed for Belgian export beers. It connects to a regular tap system and can be recycled after use. It is a sustainable alternative to the more expensive metal version that also costs more to transport.

AUTOMATION THAT DRIVES UP QUALITY

By drawing on its knowhow and productivity in the development and manufacture of function-critical products the company has been able to establish a trust-based relationship with its customers that fuels growth. “The automation process was introduced because of economic reasons,” says Ivan Meersman. “Through automation, you can guarantee constant quality and integrate fully automated quality control. That gives customers more security, which they appreciate and which drives up turnover.” Automation proved to be the route to a better future. Staff costs remained the same, but turnover increased. Camera monitoring is now integrated into the process to compare a given part to a standard so that any defects can be quickly identified. Quality data is saved automatically, which is an enormous advantage in terms of traceability. The high quality guarantee and degree of specialisation will only help to strengthen the position of the dedicated plastics group in Europe and beyond.

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The automation process was introduced because of economic reasons. Through automation, you can guarantee constant quality and integrate fully automated quality control. That gives customers more security, which they appreciate and which drives up turnover.

Ivan Meersman
CEO, Quadrant CMS



SUCCESS STORIES IN BELGIUM

CATEGORY TECHNICAL



Interview with
Daniel Blondeel
Chief Executive Officer
SABCA Group



and
Peter Reynaert
General Manager
SABCA Limburg



and
Thierry Coune
Business Development
Civil Aircraft

- Formed in 1920
- 3 sites in Belgium (Brussels, Lummen and Charleroi) and 1 site in Morocco (ASM Aéro)
- 1,100 employees
- Listed on Euronext
- Turnover in 2012: EUR 146.95 million (IFRS consolidated), 85% exports
- R&D budget: around 25% of turnover

4 SITES, 3 MARKETS, 3 BUSINESSES

Established in Brussels in 1920, SABCA is one of the oldest aerospace companies in the industry. The group has plants in all three federal regions of Belgium: Brussels, Charleroi and Lummen. A fourth site has also been opened in Casablanca, Morocco in 2012.

SABCA is active in three market segments: space, civil aviation and defence. Until just a few years ago the three segments generated a similar turnover but the addition of recent civil aviation contracts means that this segment will soon account for half of SABCA's turnover. SABCA is specialized in three key competences: metal and composite structures, mechatronics as well as military aircraft maintenance and upgrades.

AVIATION: A GLOBALISED MARKET...

"Aviation is one of the best examples of a globalised market," says Thierry Coune. The big names in civil aviation – and SABCA's direct customers, like Airbus and Boeing – have a worldwide footprint. An advantage of globalisation is that it smooths out the cyclical nature of the market, which used to be concentrated in Europe and the United States, but has now evened out with orders from emerging nations. The biggest orders now come from Asian and Arab countries, which demand offset obligations. In military aviation, which continues to be one of its key competencies, SABCA maintains most of the fleet of the Belgian armed forces. It also works with other European countries, such as the Netherlands, Norway and Denmark, as well as the US Air Force (USAFE) for which SABCA



provides maintenance and repair services for F-16s based in Europe, a speciality at its Charleroi site.

... AND COMPETITIVE

"Aviation is an extremely competitive market," says Daniel Blondeel. There is clearly no crisis in civil aviation: leading Aircraft Manufacturers have broken all records with their orders in 2012. Like its counterparts, SABCA is now working at full production capacity in order to meet the pace of demand. The current rate for long-haul planes exceeds ten per month which is a tremendous feat considering the complexity of modern aircraft. There has never before been so much pressure on prices. Aeronautical firms are forced to issue binding tenders to customers for long-term projects and however tricky it may be, it is vital to correctly judge how raw materials prices, dollar rate and inflation will evolve to keep acceptable margins.

BELGIAN ADVANTAGES

SABCA is one of the leaders in the Belgian aviation industry. "Belgium won't be buying our planes," says Daniel Blondeel. "Key Customers continue to put their trust in a Belgian firm like SABCA, due to the quality of our engineers and design offices, as well as our command of complex production processes. Belgium offers integrated products with a high degree of technological content. Our strategy is to keep the complicated stuff in house and outsource the relatively simple stuff." Belgian labour costs drive the group to automate wherever possible and to specialise in complex high-tech products.



Key Customers continue to put their trust in a Belgian firm like SABCA, due to the quality of our engineers and design offices, as well as our command of complex production processes.

Daniel Blondeel
CEO SABCA Group



Our challenge is to develop products that meet the demands of the client while enabling costs to be reduced through automation.

Peter Reynaert
General Manager SABCA Limburg

FROM METAL TO COMPOSITE

In third-generation aircraft like the Airbus A-350 XWB, which flew at the Paris Air Show in June 2013, the share of composites exceeds 50%. SABCA has blazed a trail in the use of these materials in aeronautics and is now the main Belgian group to use them on an industrial scale, through its subsidiary, SABCA Limburg. Its twofold competence in metals and composites has enabled it to land numerous Airbus work packages. The composites it uses are made from a plastic resin (most often an epoxy resin), reinforced with carbon fibres. This assembly of heterogeneous materials has attractive properties: it is lightweight, corrosion resistant and has exceptional mechanical strength.

The use of composites also enables resources to be used in a more rational way. The composite material is added layer by layer in a mould until the piece is finished (additive manufacturing) rather than material being removed from an initial block as is the case with metal. SABCA has been selected because of its expertise and capabilities in thermoset technologies. "Our challenge is to develop products that meet the demands of the client while enabling costs to be reduced through automation," says Peter Reynaert.

Thanks to the technical and financial support of the Walloon Region, the Brussels-Capital Region and the Federal authorities, SABCA pursues active research in alternative production processes for composite structures (such as Same Qualified Resin Transfer Moulding, SQRTM). The group's R&D investment policy stresses global prospecting to identify opportunities and define the characteristics of products that will be demanded tomorrow. "It is vital to identify the needs of Aircraft Manufacturers early enough to efficiently orient R&D and trigger subsequent investments," says Thierry Coune.



SUCCESS STORIES IN BELGIUM

CATEGORY TECHNICAL



Interview with
Olivier Verhoyen
Technical Director

- Formed in 1969
- Located in Liège
- 35 employees in Belgium, 6 in China
- 55% exports, half to non-European countries
- Turnover: EUR 4 million in 2012 (+ EUR 1.5 million for Optim Test Center)

Simonis Plastic is specialised in the manufacture of technical components by injection moulding. It has clients in a wide range of sectors: aeronautics, automotive, medical, electrical engineering, defence and industrial vehicles. In 2001 the company set up a subsidiary, Optim Test Center, devoted to research and development, prototyping and industrialisation of the injection moulding process. As a result, the Belgian entity comprises two separate companies working hand in hand, one further up the value chain, the other further down, to constantly optimise costs, lead times and quality.

COVERING THE WHOLE PRODUCTION CHAIN

"Some companies only come to benefit from our expertise services very early in the value chain, with every intention of having their components produced elsewhere. Others develop their product themselves before coming to us for the production only. We have no problem working only on specific stage of a project," says Mr Verhoyen.



We have no problem working only on specific stage of a project.



At Simonis Plastic they are delighted to take on all-embracing projects, but they are also more than happy to respond to more personalised requests. More than ever, the Belgian entities of the group, Simonis Plastic and Optim Test Center, are dedicated to complementing each other. The engineers of Optim Test Center select the appropriate materials, based on the client's specs, then work on the product, from design to prototyping and manufacturing tools. Once the mould has been approved, the baton is passed on to the people at Simonis Plastic, who are responsible for injection moulding, finishing and assembly. "If the mould is a showpiece, because it represents a major investment for the client, the real added value is generated by the control of the whole production chain, from raw material to finishing," says Olivier Verhoyen.

AN EFFECTIVE PARTNER NETWORK

For the Simonis group, its professional network is important and its geographical location an advantage. "Our location in Wallonia is an opportunity. We are also at the crossroads of the E40 and E42 motorways. There is a lot of expertise very close by," says Olivier Verhoyen. Simonis Plastic is also a founding member of the Plastiwin cluster, which has been set up to bring together plastics technology parties, which experience comparable realities.

STRENGTHENING ITS PRESENCE

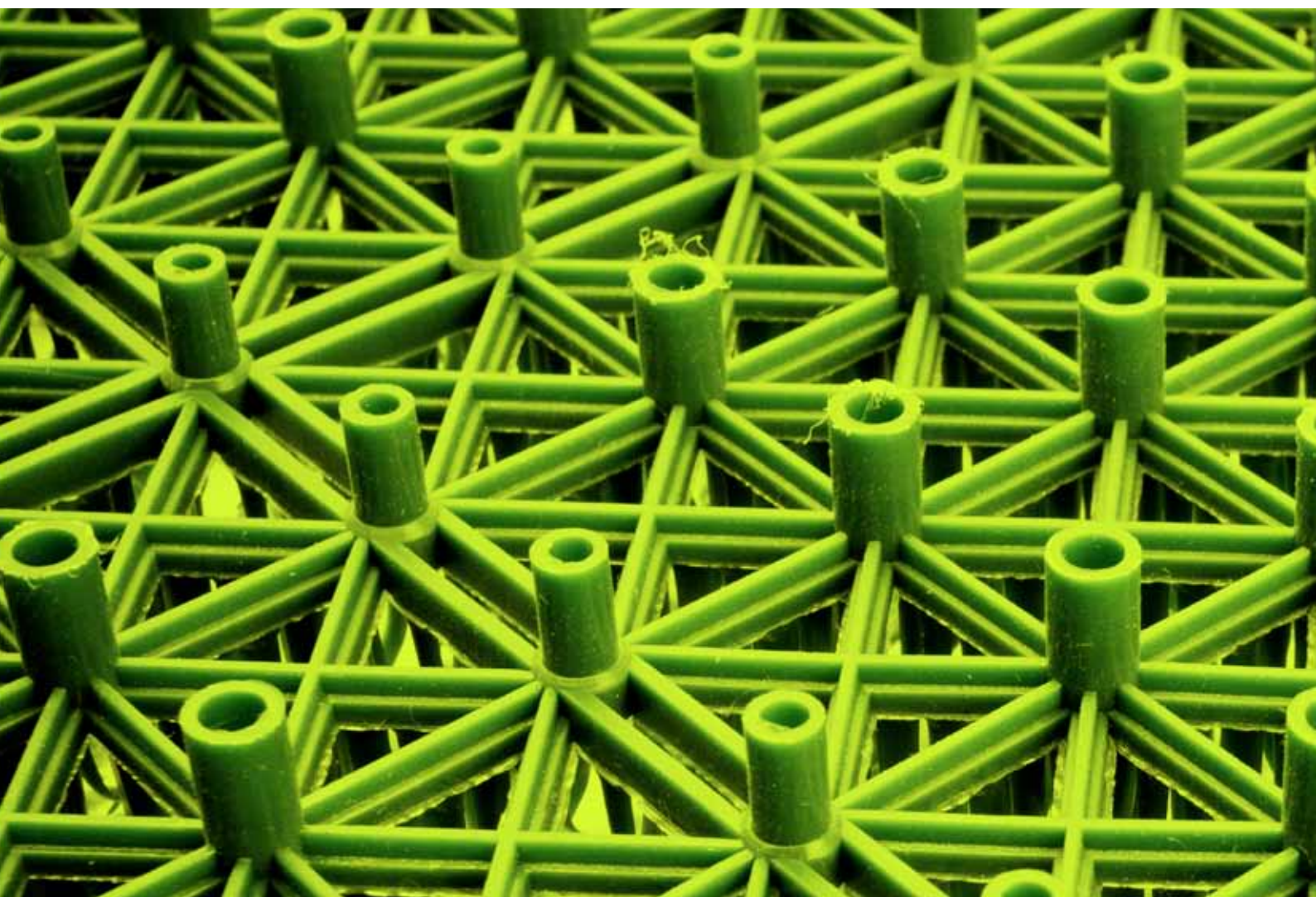
The group's ambition is to grow its business in China and enlarge its Yuyao site, which was opened in 2012, to a comparable size to its Belgian production facility. "The biggest Simonis clients have subsidiaries in China. We must be able to meet their demand. If we don't, a Chinese competitor will. In the long term, Simonis Plastic targets a stronger presence in other countries through commercial partnerships or by setting up its own subsidiary.

PERMANENT DEVELOPMENT

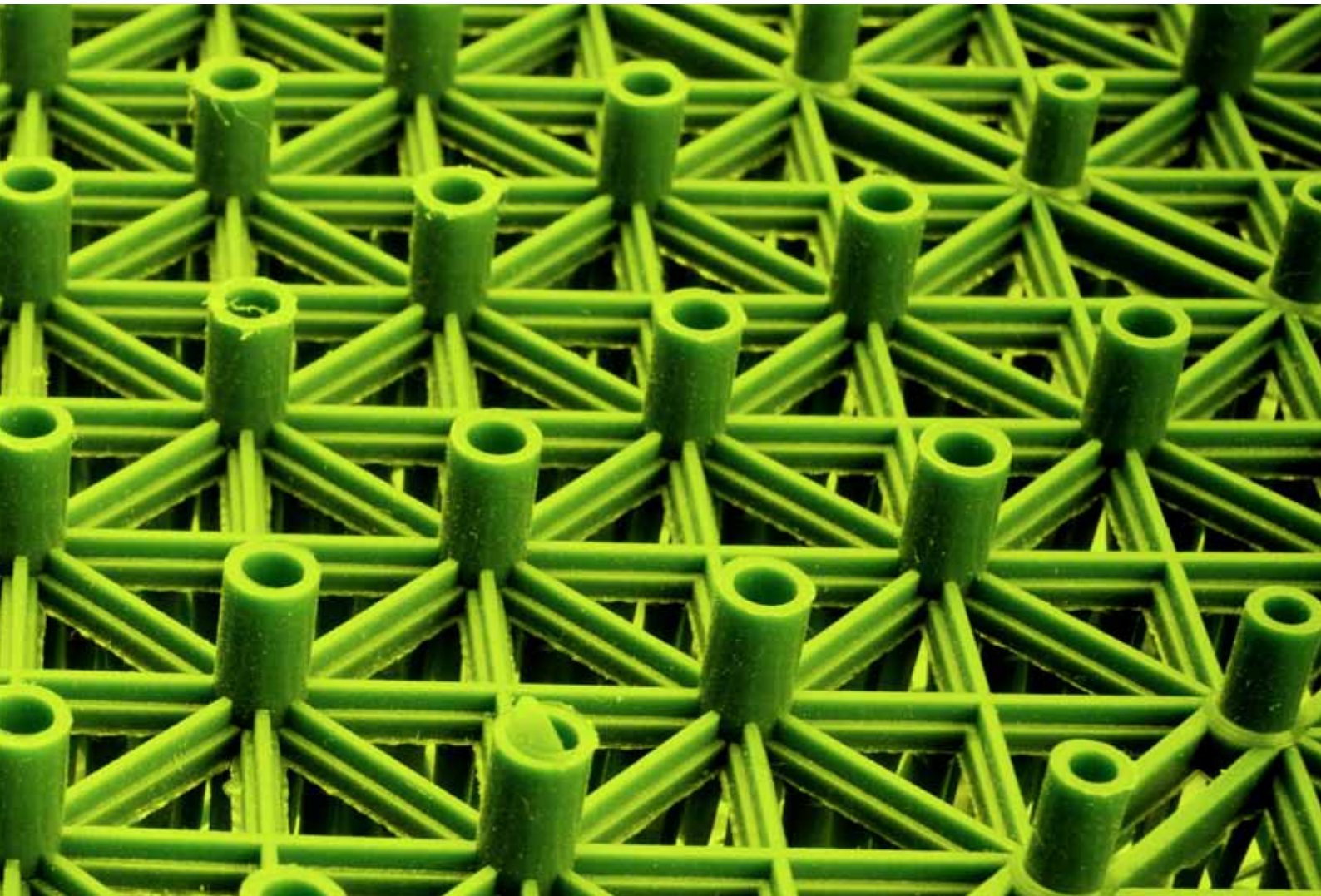
To face up to robust competition in the plastics industry, Simonis Plastic works to ensure its knowhow remains at the cutting edge while also developing its own technologies to make a name for itself and bring innovative solutions to the market. "It's vital to monitor technological advancement, but it's also important to get your hands dirty so you are able to develop your own technology," says Olivier Verhoyen. Simonis Plastic does not confine itself to traditional injection moulding, using alternative, less common, production methods, like shaping continuous fibers thermoplastic composites, 2-component-injection moulding, insert moulding and or post machining. It is also diversifying into clean-room manufacturing and developing its expertise in processing high-performance polymers.

It's vital to monitor technological advancement, but it's also important to get your hands dirty so you are able to develop your own technology.





DIRECTORY OF COMPANIES



DIRECTORY OF COMPANIES

This directory is not exhaustive.

For more information please contact Flanders Investment and Trade (FIT), Brussels Invest & Export (BIE), the Wallonia Foreign Trade and Investment Agency (AWEX) or the Belgian federations of industry (see 3.1 Industry players, p.19).

| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|----------------------|------|-------------------|----------|--|------------|--------------|---------|-----------|-----------|
| 3M Belgium | 2070 | Zwijndrecht | Flanders | www.solutions.3mbelgie.be | • | • | • | • | • |
| A & BS NV | 9000 | Gent | Flanders | - | | • | | | |
| A B C-Plastic | 9032 | Wondelgem | Flanders | www.abcplastic.com | | | | • | |
| A.Aluvera | 9700 | Oudenaarde | Flanders | www.aluvera.net | | • | | | |
| A.B. Ramen en Deuren | 2200 | Herentals | Flanders | www.abramenendeuren.be | | • | | | |
| A.C.L. | 8560 | Wevelgem | Flanders | www.aclpolyester.com | • | | | | |
| A.G.-Plastics | 8530 | Harelbeke | Flanders | www.agplastics.com | | • | | | |
| A.K.T. | 9308 | Gijzegem | Flanders | www.seeber.be | • | | | | |
| A.Schulman Plastics | 2880 | Bornem | Flanders | www.aschulman.com | • | | • | • | • |
| AB Screen | 8530 | Harelbeke | Flanders | www.abscreen.be | | | | • | |
| Abbi | 2100 | Deurne | Flanders | www.abbi.be | | • | | | |
| Abic | 1702 | Groot-Bijgaarden | Flanders | www.abicbenelus.com | | • | | | • |
| ABK-Systems | 3400 | Landen | Flanders | www.abksystems.be | | • | | | |
| Abriso | 8580 | Anzegem | Flanders | www.bubblefoam.com | | | | • | |
| ABS Plastics | 8210 | Zedelgem | Flanders | www.absplastics.eu | • | | | | • |
| Accent Europe | 8520 | Kuurne | Flanders | www.accent-etiketten.be | | | | • | |
| ACE Packaging | 3290 | Webbekom | Flanders | www.eurozak.be | | | | • | |
| Acrosoma | 9160 | Lokeren | Flanders | www.acrosoma.com | • | | | | |
| ACS Anti-Corrosion | 7180 | Seneffe | Wallonia | www.acs-pi.eu | | • | | | • |
| ADB | 1930 | Zaventem | Flanders | www.adb-air.com | | • | | | |
| ADF Ports | 9520 | St-Lievens-Houtem | Flanders | www.adfports.be | | • | | | |



| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|--------------------------|------|----------------------|----------|--|------------|--------------|---------|-----------|-----------|
| Advanced Coating | 4000 | Sclessin | Wallonia | www.advanced-coating.com | • | | | | |
| Aeriane | 5030 | Sauvenière | Wallonia | www.aeriane.com | | | | | • |
| AG Plastics | 8530 | Harelbeke | Flanders | www.agplastics.com | | • | | | |
| Agfa Labs | 2640 | Mortsel | Flanders | www.agfa.com | | | | | • |
| Agglorex | 3920 | Lommel | Flanders | www.agglorex.com | | • | | | • |
| Agridoor | 8600 | Diksmuide | Flanders | www.agridoor.be | | • | | | |
| Akaplast | 7522 | Blandain | Wallonia | www.akaplast.eu | | • | | | |
| Alain Dessein | 8972 | Poperinge | Flanders | www.alaindessein.be | | • | | | |
| Alcaplast | 8870 | Izegem | Flanders | www.alcaplast.be | | • | | | • |
| Alcon - Couvreur NV | 2870 | Puurs | Flanders | www.alconlabs.com | | | • | | |
| Alfatex NV | 9800 | Deinze | Flanders | www.alfatex.com | | | | | • |
| All Plastic | 3840 | Borgloon | Flanders | www.aluplastic.be | | • | | | |
| All Plastic Moulding | 2500 | Lier | Flanders | www.apm-lier.be | | | | | • |
| Allibert Home | 8720 | Oeselgem | Flanders | www.allibert.net | | | | | • |
| All-Systems | 3300 | Tienen | Flanders | www.allsystems.be | | • | | | |
| Almaplast | 2550 | Kontich | Flanders | www.almaplast.be | | | | | • |
| Alpagro Plastics | 3530 | Houthalen-Helchteren | Flanders | www.alpagro-plastics.be | | | | • | |
| Alpla Belgium | 9700 | Eine | Flanders | www.alpla.com | | | | • | |
| Alracon | 3640 | Kinrooi | Flanders | www.alracon.be | | • | | | |
| Alro | 3650 | Dilsen-Stokkem | Flanders | www.alro-group.com | | | | | • |
| Altachem | 9800 | Deinze | Flanders | www.altachem.com | | | | | • |
| Amtor Flexibles Transpac | 1930 | Zaventem | Flanders | www.amcor.com | | | | • | |
| Amerplastics | 9060 | Zelzate | Flanders | www.amerplastics.com | | • | | | |
| Amf Precisie | 2390 | Malle | Flanders | www.amfprecisie.be | | | | | • |
| Ammeraal Beltech | 1702 | Groot-Bijgaarden | Flanders | www.ammeraalbeltech.com | | | | | • |
| Ampacet Belgium | 6780 | Messancy | Wallonia | www.ampacet.com | • | • | • | • | • |
| Anaf Products | 8720 | Dentergem | Flanders | www.anafproducts.eu | | • | | | |
| Anc. Ets. F. Verdeyen | 3400 | Landen | Flanders | www.vlux.com | | • | | | |
| ANL Plastics | 3830 | Wellen | Flanders | www.anlplastics.com | | | | • | |
| Antoma | 3920 | Lommel | Flanders | www.antoma.be | | | • | • | • |



DIRECTORY OF COMPANIES

| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|-------------------------------------|------|-------------------|----------|--|------------|--------------|---------|-----------|-----------|
| Anziplast Tavernier | 8870 | Izegem | Flanders | www.anziplast.be | | | | | • |
| AOR Plastics | 2030 | Antwerpen | Flanders | - | | | | | • |
| Aquiles | 8560 | Wevelgem | Flanders | www.aquiles.be | • | | | | |
| Arba | 2660 | Hoboken | Flanders | www.arba.be | | | | | • |
| Arburg | 3220 | Holsbeek | Flanders | www.arburg.be | | | | | • |
| Arcelor Mittal Construction Belgium | 2440 | Geel | Flanders | www.arclad.be | | • | | | |
| Arendo | 3300 | Tienen | Flanders | - | | | | • | |
| Argent Alu | 9770 | Kruishoutem | Flanders | www.argentalu.com | | • | | | |
| Armacell Benelux | 4890 | Thimister | Wallonia | www.armacell.com | | • | | | • |
| Arplam | 8850 | Ardoeie | Flanders | www.arplamagroup.com | • | | | | |
| Artalu-Vesni Plastics | 9810 | Nazareth | Flanders | www.artalu.be | | | | | • |
| Artenius Pet Packaging Belgium | 2960 | Brecht | Flanders | www.schmalbach.com | | | | • | |
| Articom | 2800 | Mechelen | Flanders | www.articom.be | | | | | • |
| Artilabo International | 9070 | Destelbergen | Flanders | www.artilabo.be | | | | | • |
| Artilat | 2560 | Nijlen | Flanders | www.artilat.be | • | | | • | • |
| Artiplex | 3090 | Overijse | Flanders | www.artiplex.com | | | | | • |
| Artissan | 3670 | Meeuwen-Gruitrode | Flanders | www.artissan.eu | | • | | | |
| Asahi Kasei Plastics Europe NV | 1140 | Brussels | Brussels | www.asahi-kasei.co.jp | | | • | | • |
| Aspel Polyform | 4830 | Limbourg | Wallonia | www.ospel-group.com | • | | | | • |
| Aspel V.G. Plastics | 3950 | Bocholt | Flanders | www.ospel-group.com | | | | | • |
| Astra | 4651 | Battice | Wallonia | www.astraservices.be | | • | | | • |
| Atelier Mosan | 4500 | Huy | Wallonia | www.ateliermosan.be | | | | • | • |
| Ateliers Jadot | 5650 | Fraire | Wallonia | www.ateliersjadot.be | | | | | • |
| Atima-Tpim | 4860 | Pepinster | Wallonia | www.atima-tpim.be | • | • | • | | |
| Atmi | 3320 | Hoegaarden | Flanders | www.newform.com | | | • | | |
| Avamo Plast | 9111 | Belsele | Flanders | www.avamoplast.be | | | | | • |
| Avery Dennison Belgie | 2300 | Turnhout | Flanders | www.averydennison.com | | | | • | |
| B & P Products | 3900 | Overpelt | Flanders | www.bpproducts.be | | | | | • |
| B.A.G. - Plastics | 3580 | Beringen | Flanders | www.bag.be | | | | | • |
| B.S.I. Belgium | 8750 | Zwevezele | Flanders | www.bsibelgium.be | | • | | | |

| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|---------------------------------|------|--------------------|----------|--|------------|--------------|---------|-----------|-----------|
| Bamoplast | 9200 | Dendermonde | Flanders | www.bamoplast.be | | • | | | |
| Bandag-Europe | 3650 | Lanklaar | Flanders | www.bandag.com | • | | | | |
| Basf Belgium | 2040 | Antwerpen | Flanders | www.basf.be | • | • | • | • | • |
| Basf Belgium | 1410 | Waterloo | Wallonia | www.basf.be | • | • | • | • | • |
| Baxter | 7860 | Lessines | Wallonia | www.baxter.be | | | • | | |
| Bayer Sheet Europe | 8700 | Tielt | Flanders | www.bayersheeteurope.com | | • | | | |
| Beaulieu International Group NV | 8790 | Waregem | Flanders | www.bintg.com | | | | | • |
| Beauty Pack | 8750 | Wingene | Flanders | www.beautypack.be | | | | • | |
| Bekaert | 8550 | Zwevegum | Flanders | www.bekaert.com | | • | | | • |
| Bekina | 9690 | Berchem-Oudenaarde | Flanders | www.bekina.be | | | • | | |
| Bekina Compounds | 9690 | Kluisbergen | Flanders | www.bekina-compounds.be | | | | | • |
| Bekro | 2900 | Schoten | Flanders | www.bekro.be | • | | | | |
| Belfort International | 3550 | Zolder | Flanders | www.belfortinternational.be | | | | • | |
| Belgian Bottlecap Schotte | 2840 | Rumst | Flanders | - | | | | • | |
| Belgiplast | 1081 | Brussels | Brussels | www.belgiplast.be | | | | • | |
| Belgium Recycling Company | 3930 | Hamont-Achel | Flanders | www.belgiumrecyclingcompany.com | | | | | • |
| Beliworks | 3900 | Overpelt | Flanders | www.beliworks.com | | • | | | |
| Beltec | 2500 | Lier | Flanders | www.beltec.com | | | | | • |
| Beologic | 8554 | Sint-Denijs | Flanders | www.beologic.com | | | | | • |
| Berry Plastics | 2260 | Westerlo | Flanders | www.berryplastics.com | | | | • | |
| Best Mannequins | 8780 | Oostrozebeke | Flanders | www.bestmannequins.be | | | | | • |
| Betafence | 8550 | Zwevegum | Flanders | www.betafence.com | | • | | | |
| Bewood | 4190 | Ferrieres | Wallonia | www.bewood.be | | • | | | |
| Beyers' Plastics | 2870 | Puurs | Flanders | www.beyersplastics.be | | | | • | |
| Bfan | 4031 | Liège | Wallonia | www.bfan.be | | | | • | |
| Blasco | 9991 | Adegem | Flanders | - | | | | | • |
| BNW | 9961 | Boekhoute | Flanders | - | | • | | | |
| Boralit (Nicoba Holding) | 9880 | Aalter | Flanders | www.boralit.be | | • | | | • |
| Borealis Antwerpen Compounding | 2070 | Zwijndrecht | Flanders | www.borealisgroup.com | | | | | • |
| Borval.Tec | 8900 | Ieper | Flanders | www.borval.be | | | | • | |

DIRECTORY OF COMPANIES

| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|----------------------------------|------|-------------------|----------|--|------------|--------------|---------|-----------|-----------|
| Bovyn David | 9700 | Oudenaarde | Flanders | www.bovynpvcramen.be | | • | | | |
| Bpi Formipac | 8800 | Roeselare | Flanders | www.formipac.be | | | | • | |
| B-Plast | 7061 | Soignies | Wallonia | - | • | | | • | • |
| Brabantia S&L Belgium | 3900 | Overpelt | Flanders | www.brabantia.com | | | | | • |
| Bridgestone Aircraft Tire Europe | 7080 | Frameries | Wallonia | www.bridgestone.com | • | | | | |
| Brigi Hi-Tec | 2220 | Heist-Op-Den-Berg | Flanders | www.brigi.be | • | • | | | • |
| Bsi | 7180 | Seneffe | Wallonia | www.bsibelgium.be | | • | | | |
| Btl Plastics | 8710 | Wielsbeke | Flanders | www.btlplastics.com | • | | | | • |
| B-Token Bvba | 2470 | Retie | Flanders | www.b-token.eu | | | | | • |
| Building Plastics | 9771 | Nokere | Flanders | www.buildingplastics.be | | • | | | |
| C.M.K. | 3930 | Hamont-Achel | Flanders | www.cmkkunststoffen.be | | | | | • |
| C.T.I. Europe | 9042 | Gent | Flanders | www.ctiunicell.com | | • | | | • |
| Cableries D'Eupen | 4700 | Eupen | Wallonia | www.eupen.com | • | • | • | • | • |
| Cableries Namuroises | 5100 | Namur | Wallonia | www.cabnam.be | | • | | | |
| Cabot Plastics Belgium | 4431 | Ans | Wallonia | www.cabot-corp.com | | • | • | | • |
| California Plastics | 9690 | Kluisbergen | Flanders | - | | | | | • |
| Campine | 2340 | Beerse | Flanders | www.campine.be | | | | | • |
| Carbone + | 7522 | Tournai | Wallonia | www.carboneplus.be | | • | | | • |
| Carcoustics Belgium | 3600 | Genk | Flanders | www.carcoustics.com | • | | | | |
| Carda | 2060 | Antwerpen | Flanders | www.carda.be | | | | | • |
| Carpenter Belgium | 8800 | Beveren-Roeselare | Flanders | test.carpenter.com/countries/belgium | | | | | • |
| Carthuplas | 7350 | Thulin | Wallonia | www.carthuplas.be | | | | • | |
| Carubin | 8740 | Pittem | Flanders | www.carubin.be | | | | | • |
| Castel Engineering | 7700 | Mouscron | Wallonia | www.castel-engineering.com | | • | | | |
| Cc Rubber | 8020 | Oostkamp | Flanders | www.ccrubber.be | | | | | • |
| Cdm | 3090 | Overijse | Flanders | www.cdm.be | | • | | | |
| Cel Pro Phar | 2170 | Merksem | Flanders | www.cel-pro-phar.be | | | | | • |
| Celplast | 9090 | Melle | Flanders | www.celplast.be | | | | • | |
| Celprom | 1190 | Brussels | Brussels | www.celprom.com | | | | • | |
| Cgk Group | 8560 | Wevelgem | Flanders | www.cgk-group.com | | • | | | |



| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|--|------|--------------------------------|----------|--|------------|--------------|---------|-----------|-----------|
| Champion Watching | 7812 | Ligne | Wallonia | www.championwatching.be | | • | | | |
| Chaput | 5030 | Gembloux | Wallonia | www.chaput.be | | • | | • | • |
| Chevron Phillips Chemicals International | 9130 | Kallo | Flanders | www.rytonpps.com | | | | | • |
| Clariant Masterbatches Benelux | 1348 | Ottignies/ Louvain-La-Neuve | Wallonia | www.clariant.com | • | • | • | • | • |
| Clem | 8500 | Kortrijk | Flanders | www.clem.be | • | | • | | • |
| Coatex | 8970 | Poperinge | Flanders | www.sioen.com | | | | | • |
| Cobraflex | 9991 | Adegem | Flanders | www.cobraflex.be | | | | | • |
| Coenen Plastics | 3191 | Hever | Flanders | www.coenenplastics.be | | | | | • |
| Cofely Fabricom | 1180 | Brussels | Brussels | www.cofelyfabricom-gdfsuez.com | | | | | • |
| Cofely Fabricom Industrie Sud | 6220 | Fleurus | Wallonia | www.cofelyfabricom-gdfsuez.com | | | | | • |
| Co-Joint | 4000 | Sclessin | Wallonia | www.cojoint.com | | • | | | • |
| Comet Traitement | 6200 | Châtelet | Wallonia | www.groupecomet.com | • | | | | • |
| Conpax | 3500 | Hasselt | Flanders | www.conpax.be | | | | • | |
| Continental Automotive Benelux | 2800 | Mechelen | Flanders | www.continental.be | • | | | | |
| Conwed Plastics | 3600 | Genk | Flanders | www.conwedplastics.com | | | | | • |
| Cooper-Standard Automotive Belgium | 9000 | Gent | Flanders | www.cooperstandard.com | • | | | | |
| Coram Belgium | 3900 | Overpelt | Flanders | www.coram.be | | • | | | |
| Cornelis Plastics | 2850 | Boom | Flanders | www.cornelis-plastics.be | | | | • | |
| Cras F | 2550 | Kontich | Flanders | www.cras-f.com | | • | | | |
| Crown General | 3980 | Tessenderlo | Flanders | www.crowngeneral.be | | | | • | |
| D & K Plastics | 2030 | Antwerpen | Flanders | www.dkplastics.be | | | | • | |
| D&W Moulds | 8540 | Deerlijk | Flanders | www.dwmoulds.be | | | | | • |
| D.S. Plastics Belgium | 9160 | Lokeren | Flanders | www.dsplastics.be | | • | | | • |
| D.W. Plastics | 3740 | Bilzen | Flanders | www.dwplastics.be | | | | • | |
| Dakota Coatings | 9810 | Nazareth | Flanders | www.dakota-coatings.com | | | | | • |
| Darvan Invest | 8850 | Ardoie | Flanders | www.darvan.be | | | | | • |
| Datwyler Pharma Packaging Int. NV | 3570 | Alken | Flanders | www.datwyler.com | | | • | | |
| Dayco Sacic | 7011 | Ghlin | Wallonia | www.dayco.be | • | | | | |



DIRECTORY OF COMPANIES

| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|---------------------------------|------|---------------|----------|--|------------|--------------|---------|-----------|-----------|
| Dbp Plastics | 2610 | Wilrijk | Flanders | www.dbp.be | | | | • | • |
| De Boer Waterproofing Solutions | 2900 | Schoten | Flanders | www.deboer.be | | • | | | |
| De Ster | 2320 | Hoogstraten | Flanders | www.dester.com | | | | • | |
| Deceuninck | 8830 | Hooglede-Gits | Flanders | www.deceuninck.com | | • | | | |
| Declercq NV | 8900 | Ieper | Flanders | www.declercq.be | | | | | • |
| Decoplast | 9700 | Oudenaarde | Flanders | www.decoplast.be | | | | | • |
| Dejelin | 5140 | Sombrefte | Wallonia | www.dejelin.com | | | | • | |
| Delta Plast | 3660 | Opglabbeek | Flanders | www.deltaplast.com | | | | | • |
| Delta Plastics | 6040 | Jumet | Wallonia | www.delta-plastics.be | | • | | • | • |
| Delta Rubber Industries | 8380 | Zeebrugge | Flanders | www.deltarubberindustries.be | | | | | • |
| Denamur J (Etablissements) | 1300 | Wavre | Wallonia | www.pochettes-pvc.com | | | | • | |
| Desso Sports Systems | 9200 | Dendermonde | Flanders | www.dessodlw.com | | | | | • |
| Dester | 2320 | Hoogstraten | Flanders | www.dester.com | | | | • | |
| Devos-Plastics | 3545 | Loksbergen | Flanders | - | | | | • | |
| Dewaegenaere Plastics | 2520 | Ranst | Flanders | www.verpakking.be | | | | • | |
| Dewit Plastics | 2900 | Schoten | Flanders | www.dewitplastics.com | | | | • | |
| Diametal | 2200 | Herentals | Flanders | www.diametal.be | • | | • | | • |
| Didak Injection | 2280 | Grobbendonk | Flanders | www.didak.be | | | | • | • |
| Dimequip | 7080 | Frameries | Wallonia | www.vygon.com | | | • | | |
| Dinamic Emballage Benelux | 9300 | Aalst | Flanders | www.dinamic-benelux.be | | | | • | |
| Distriplex | 9000 | Gent | Flanders | www.distriplex.be | | • | | | • |
| Domo Gent Polymers | 9052 | Zwijnaarde | Flanders | www.domochemicals.com | | | | | • |
| Donaldson Europe NV | 3001 | Heverlee | Flanders | www.donaldson.com | | | | | • |
| Dsm Specialty Compounds | 3600 | Genk | Flanders | www.dsm.com | | | | | • |
| Du Pont De Nemours | 2800 | Mechelen | Flanders | www.dupont.com | | | | | • |
| Dumaplast | 9991 | Adegem | Flanders | www.dumaplast.be | | • | | | • |
| Duolim | 3560 | Lummen | Flanders | www.duolim.be | | | | | • |
| Duplast | 3740 | Bilzen | Flanders | www.duplast.be | | | | • | |
| Duraplast | 8700 | Tielt | Flanders | www.duraplast.be | | • | | | |
| Dyka Plastics | 3900 | Overpelt | Flanders | www.dyka.com | | • | | | |



| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|---|------|---------------------|----------|--|------------|--------------|---------|-----------|-----------|
| Dymo | 9100 | Sint-Niklaas | Flanders | www.dymo.com | | | | • | |
| E.C.C. | 2610 | Wilrijk | Flanders | www.ecc-belgium.be | | • | | | |
| E.M.B. | 2880 | Bornem | Flanders | www.sioen.be | | | | | • |
| Eastman | 1050 | Brussels | Brussels | www.eastman.com | • | • | | | • |
| Eaton Filtration | 9100 | Sint-Niklaas | Flanders | www.eaton.com | | | | | • |
| Eco 2 | 9620 | Zottegem | Flanders | www.eco2box.com | | | | • | |
| Ecoloc | 2960 | Brecht | Flanders | www.ecolocflooring.com | | | | | • |
| Ecomi | 7110 | Strepy-Bracquegnies | Wallonia | www.ecomi.eu | • | | • | • | • |
| Econcore | 3001 | Heverlee | Flanders | www.econcore.com | | • | | • | |
| Ecoplast Technology | 6041 | Gosselies | Wallonia | www.ecoplast-technology.eu | • | | | | |
| Eco-Profil | 8790 | Waregem | Flanders | www.eco-profil.com | | • | | | • |
| Ekol | 3530 | Houthalen | Flanders | www.ekol.be | | • | | | |
| Elytra | 2440 | Geel | Flanders | www.elytra.be | | • | | | |
| Emerson & Cuming Microwave Products | 2440 | Geel | Flanders | www.eccosorb.com | • | | • | | • |
| Engels Logistics | 3520 | Zonhoven | Flanders | www.engels.eu | | | | • | |
| EOC Belgium | 9700 | Oudenaarde | Flanders | www.eocgroup.com | • | • | | | • |
| Equate - Walution Bvba | 9100 | Sint-Niklaas | Flanders | - | | | | • | |
| Eriks | 2660 | Hoboken | Flanders | www.eriks.be | | | | | • |
| Eriks Rubber & Plastics (Eriks+Baudoin) | 1730 | Mollem | Flanders | www.eriks.be | | • | | | • |
| Esselte Business | 9100 | Sint-Niklaas | Flanders | www.esselte.be | | | | | • |
| Estrikor NV | 8500 | Kortrijk | Flanders | www.estrikor.com | | • | | | • |
| Eta-Com B | 2850 | Boom | Flanders | www.etacomgroup.com | | | | | • |
| Ets J Stillemans | 1731 | Zellik | Flanders | www.stillemans.com | | | | | • |
| Euralpack NV | 2900 | Schoten | Flanders | www.euralpack.com | | | | | • |
| Eurocork | 3110 | Rotselaar | Flanders | www.eurocork.com | | | | • | |
| Euro-M Flexible Packaging | 7011 | Ghlin | Wallonia | - | | | | • | |
| Euronyl Plastics Group | 9810 | Nazareth | Flanders | www.euronylplastics.com | | | • | | • |
| Europlex | 1400 | Nivelles | Wallonia | www.europlex.be | • | • | • | | |
| Eurotube | 6460 | Chimay | Wallonia | www.soupletube.fr | | | | • | |
| Eurover | 4801 | Stembert | Wallonia | www.eurover.be | | | | | • |



DIRECTORY OF COMPANIES

| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|--------------------------------------|------|-----------------|----------|--|------------|--------------|---------|-----------|-----------|
| Exam Packaging | 1853 | Strombeek-Bever | Flanders | www.exampackaging.be | | | | • | |
| Exel Composites | 9700 | Oudenaarde | Flanders | www.exel.net | | • | | | |
| Exelto | 9052 | Zwijnaarde | Flanders | www.domo.be | | | • | | |
| Exxonmobil Chemical Films Europe Inc | 6761 | Latour | Wallonia | www.oppfilms.com | | | | • | |
| Façonnage de Matières Plastiques | 4700 | Eupen | Wallonia | www.fmp-eupen.be | | • | | | |
| Famenne Plastic | 6900 | Verdenne | Wallonia | www.users.skynet.be/famenneplastic | | | | | • |
| Faurecia Industrie | 9042 | Desteldonk | Flanders | www.faurecia.com | • | | | | |
| Feronyl | 7700 | Mouscron | Wallonia | www.feronyl.com | • | • | • | | • |
| Fiber Decor | 9420 | Erpe-Mere | Flanders | www.fiberdecor.be | | | | | • |
| Firestone Building Products Europe | 1930 | Zaventem | Flanders | www.fbpe.be | | | | | • |
| Fischbach Belgium | 9140 | Temse | Flanders | www.fischbach-fi.com | | | | | • |
| Flanders Plastics | 2850 | Boom | Flanders | www.cornelis-plastics.be | | | | | • |
| Foamflex | 8930 | Menen | Flanders | www.foamflex.be | | | | | • |
| Fost Plus | 1200 | Brussels | Brussels | www.fostplus.be | | | | • | |
| Fremach | 3590 | Diepenbeek | Flanders | www.fremach.com | • | | | | • |
| Freyssinet Belgium | 1800 | Vilvoorde | Flanders | www.freyssinet.be | | • | | | |
| Galgo Pre-Q Europe | 3700 | Tongeren | Flanders | www.galgopreq.info/europe | • | | | | |
| Gamma - Wopla | 7700 | Mouscron | Wallonia | www.gammawopla.com | | | | • | |
| Gandaplast | 9700 | Oudenaarde | Flanders | www.decoganda.com | | | | | • |
| Gantrex | 1400 | Nivelles | Wallonia | www.gantry.com | • | • | | | • |
| Gates Europe | 9320 | Erembodegem | Flanders | www.gates.com/europe | | | | | • |
| Gemaplast | 4280 | Hannut | Wallonia | www.gemaplast.com | | • | | | • |
| Gevaplast | 9031 | Drongen | Flanders | www.gevaplast.com | | | | • | • |
| Giesecke en Devrient | 1930 | Zaventem | Flanders | www.gieseckedevrient.com | | | | | • |
| Givatec Bvba | 3001 | Herverlee | Flanders | www.givatec.com | | | | | • |
| Gmp | 9800 | Deinze | Flanders | www.gmp.be | | • | | | • |
| Govaerts Recycling | 3570 | Alken | Flanders | www.govaerts-recycling.be | | • | | | • |
| Grafityp Selfadhesive Products | 3530 | Houthalen | Flanders | www.grafityp.com | | | | | • |
| Graham Packaging Belgium | 3110 | Rotselaar | Flanders | www.grahampackaging.com | | | | • | |
| Grando | 1400 | Nivelles | Wallonia | www.grando.net | • | • | | • | • |



| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|--|------|----------------------------|----------|--|------------|--------------|---------|-----------|-----------|
| Grass Tech Solutions | 1348 | Ottignies-Louvain-La-Neuve | Wallonia | www.grasstech.com | | • | | | |
| Gunze Plastics & Engineering Corp. Of Europe | 3500 | Hasselt | Flanders | www.gunze.co.jp | | | | • | |
| Gutmann Plastics Benelux | 3530 | Houthalen-Helchteren | Flanders | www.gutmann.be | | • | | | • |
| Habasit | 1930 | Zaventem | Flanders | www.habasit.com | | | | | • |
| Hannecard | 9600 | Ronse | Flanders | www.hannecard.com | | | | | • |
| Helvoet Pharma Belgium | 3570 | Alken | Flanders | www.datwyler.com | | | • | | |
| Helvoet Rubber & Plastic Technologies | 3920 | Lommel | Flanders | www.helvoet.com | • | | • | | • |
| Hemmar Pvc | 1654 | Huizingen | Flanders | www.hemmar-pvc.be | | • | | | |
| Henco Industries | 2200 | Herentals | Flanders | www.henco.be | | • | | | |
| Hercorub | 3620 | Lanaken | Flanders | www.hercorub.com | | | | | • |
| Heuvel - Folies | 2960 | Brecht | Flanders | www.heuvel-folie-serres.com | | | | | • |
| Hexcel Composites | 4840 | Welkenraedt | Wallonia | www.hexcelcomposites.com | | | | | • |
| Hexpol Compounding | 4700 | Eupen | Wallonia | www.hexpolcompounding.com | • | • | | | • |
| Hisfa Isolatiefabriek | 2235 | Hulshout | Flanders | www.hisfa.be | | • | | | |
| Hobon (Nicoba Holding) | 9950 | Waarschoot | Flanders | www.hobon.be | | | | • | |
| Hubert De Backer | 9100 | Sint-Niklaas | Flanders | www.hdb.be | • | | • | | • |
| Hunter Douglas Belgium | 9160 | Lokeren | Flanders | www.helioscreen.be | | • | | | |
| Hyplast | 2320 | Hoogstraten | Flanders | www.hyplast.be | | | | • | • |
| Ideal Plastic Works | 9320 | Aalst | Flanders | www.attema.be | | • | | | • |
| Iec | 3770 | Riemst | Flanders | www.iec.be | | • | | | |
| Iko Sales International | 3945 | Oostham | Flanders | www.iko.be | | • | | | |
| Im Press | 8500 | Kortrijk | Flanders | www.impress.be | | | | | • |
| Imatex | 2900 | Schoten | Flanders | www.imatex.be | | • | | • | • |
| Imperbel | 1360 | Perwez | Wallonia | www.derbigum.com | | • | | | |
| Incoplas | 1170 | Brussels | Brussels | www.incoplas.com | | | | • | |
| Incoplas | 9600 | Ronse | Flanders | www.incoplas.com | | | | • | |
| Induflex | 9000 | Gent | Flanders | www.rogers-corp.com/induflex | | | | | • |
| Indumat | 1020 | Brussels | Brussels | www.indumat.com | | • | | | |
| Indupack | 3920 | Lommel | Flanders | www.indupack.be | | | | • | |



DIRECTORY OF COMPANIES

| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|---|------|----------------------|----------|--|------------|--------------|---------|-----------|-----------|
| Indupol International | 2370 | Arendonk | Flanders | www.indupol.com | • | | | | |
| Indurub | 9690 | Berchem-Oudenaarde | Flanders | www.indurub.be | | | | | • |
| Industrial Injection Plastics - Etn. Van Wyne | 9260 | Wichelen | Flanders | www.iip.be | | | | • | • |
| Industrial Plastics Belgium | 8790 | Waregem | Flanders | www.iplast.be | | • | | | • |
| Inergy Automotive Systems | 1120 | Brussels | Brussels | www.inergyautomotive.com | • | | | | |
| Inergy Automotive Systems | 2200 | Herentals | Flanders | www.inergyautomotive.com | • | | | | |
| Injextru Plastics | 8700 | Tielt | Flanders | www.injextru.be | | • | | | • |
| Inno-Mould | 9120 | Beveren-Waas | Flanders | www.innomould.be | | | | | • |
| Innova Packaging Systems | 8900 | Ieper | Flanders | www.ips-belgium.com | | | | • | |
| Innovative Coating Technologies | 9800 | Deinze | Flanders | www.ict-coatings.be | | | | | • |
| Innovia Films | 9820 | Merelbeke | Flanders | www.innoviafilms.com | | | | • | |
| Iol Strategic Design | 4031 | Angleur | Wallonia | www.iol.be | • | • | • | • | • |
| Ipic Plastic | 4682 | Houtain-Saint-Simeon | Wallonia | www.ipicplastic.be | • | • | • | | • |
| Isix | 8550 | Zwevegem | Flanders | www.isiplast.be | | | | | • |
| Isoband | 2390 | Malle | Flanders | www.isoband.be | | • | | | |
| Isobar | 8791 | Beveren | Flanders | www.isobar.be | | • | | | |
| Isomo | 8501 | Heule | Flanders | www.isomo.be | | • | | • | |
| Iss Industrial Services NV | 1800 | Vilvoorde | Flanders | www.iss.be | | | | | • |
| J. De Beukelaer | 2100 | Deurne | Flanders | www.debe.be | | | | | • |
| Jackson Insulation | 2250 | Olen | Flanders | www.jackson-insulation.com | | • | | | |
| Jd'C Innovation | 4460 | Grace-Hollogne | Wallonia | www.jean-delcour.be | | | | • | • |
| Jemaco | 3020 | Herent | Flanders | www.jemaco.be | | | | • | |
| Jumi Plastics Belgium | 3590 | Diepenbeek | Flanders | www.jumi.be | | | | | • |
| Jungbecker | 8870 | Izegem | Flanders | www.jungbecker.de | • | | | | • |
| Junta Polymers | 2960 | Brecht | Flanders | www.junta-polymers.com | | | | | • |
| Kautex Textron Benelux | 3980 | Tessenderlo | Flanders | www.kautex.de | • | | | • | • |
| Kem-Products | 2220 | Heist-Op-Den-Berg | Flanders | www.kemisol.be | | | | • | |
| Kingspan Tarec Industrial Insulation | 2300 | Turnhout | Flanders | www.kingspantarec.com | | • | | | |
| Knopack NV | 8501 | Heule | Flanders | www.knopack.be | | | | • | |



| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|---|------|--------------------|----------|--|------------|--------------|---------|-----------|-----------|
| Kunststoftechniek | 3980 | Tessenderlo | Flanders | www.vuegen.be | | | | | • |
| La Zeloise | 9240 | Zelee | Flanders | www.lazeloise.be | | | | • | |
| Labtech Engineering | 4053 | Embourg | Wallonia | www.labtech.com | • | • | • | • | • |
| Lacollonge Belgium | 4870 | Foret | Wallonia | www.lacollonge-be.com | • | • | | | • |
| Lakkerij Vandereydt NV | 3550 | Heusden-Zolder | Flanders | www.lakkerijvandereydt.be | | | | | • |
| Lanxess | 9130 | Kallo | Flanders | www.lanxess.be | | | | | • |
| Lasea | 4031 | Angleur | Wallonia | www.lasea.eu | • | | • | • | |
| Latexco | 8700 | Tielt | Flanders | www.latexco.be | | | | | • |
| Layerwise NV | 3053 | Haasrode | Flanders | www.layerwise.com | | | • | | • |
| Lazer | 1435 | Mont-Saint-Guibert | Wallonia | www.lazerhelmets.com | | | | | • |
| Lecluyse | 8610 | Kortemark | Flanders | www.louverdrape.be | | • | | | |
| Lemahieu Hk | 8730 | Beernem | Flanders | www.lemahieunet.be | | | | • | |
| Lemaire | 7760 | Celles | Wallonia | www.lemaitreplasticsescanaffles.be | | | | • | |
| Leoni Cable Belgium | 3500 | Hasselt | Flanders | www.leoni.com | | | | | • |
| Limacryl | 3650 | Dilsen-Stokkem | Flanders | www.limacryl.be | | | | | • |
| Limburgse Rubber Producten | 3621 | Rekem | Flanders | www.tessenderlo.com | • | | | | • |
| LKB, Lood- en Kunststofverwerking | 9660 | Brakel | Flanders | www.labiau.be | | | | | • |
| Loggeo | 8870 | Izegem | Flanders | - | | | | | • |
| Lpw Corporate | 1200 | Brussels | Brussels | www.lpwcorporate.com | | | | | • |
| Lubrizol Advanced Materials Europe | 2260 | Oevel | Flanders | www.lubrizol.com | | | | | • |
| Lukos | 2550 | Kontich | Flanders | www.lukos.be | | | | | • |
| Lumoplas | 8770 | Ingelmunster | Flanders | www.plastivan.be | | • | | | |
| Luxilon Industries | 2110 | Wijnegem | Flanders | www.luxilon.be | | | | | • |
| M.I.P. Nv Composites | 2310 | Rijkevorsel | Flanders | www.mip-nv.com | | • | | | |
| Mactac Bemis | 7060 | Soignies | Wallonia | www.mactac.eu | | | | • | • |
| Martens Plastics NV | 2400 | Mol | Flanders | www.martensgroep.eu | | • | | | |
| Materialise NV | 3001 | Heverlee | Flanders | www.materialise.com | | | • | | • |
| Mazzeo | 7170 | Manage | Wallonia | www.mazzeo.be | • | | • | | • |
| Mctechinics | 4600 | Vise | Wallonia | www.mctechinics.com | • | • | | | |
| Mechanische Constructie Baudoin - Eriks | 2400 | Mol | Flanders | www.baudoin.be | | • | | | |



DIRECTORY OF COMPANIES

| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|--|------|-------------------|----------|--|------------|--------------|---------|-----------|-----------|
| Mecoplas | 8780 | Oostrozebeke | Flanders | www.mecoplas.be | | | | | • |
| Medibeg | 8560 | Wevelgem | Flanders | www.medibeg.be | | | | | • |
| Medi-Line | 4031 | Angleur | Wallonia | www.mediline.be | | | • | | |
| Mep Applications | 9900 | Eeklo | Flanders | www.mepapplications.be | | | | | • |
| Merko | 2950 | Kapellen | Flanders | www.merko.eu | | | | | • |
| Mertens Plastique | 4890 | Thimister | Wallonia | www.mertensplastique.be | | • | | | |
| Metagra | 9031 | Drongen | Flanders | www.metagra-industry.com | | | | | • |
| Metaplex | 2610 | Wilrijk | Flanders | www.metaplex.be | | • | | | • |
| Mevano | 9160 | Lokeren | Flanders | www.mevano.be | | | | | • |
| Mewaf International | 8510 | Marke | Flanders | www.mewaf.com | | • | | | |
| Michelin Belux | 1731 | Zellik | Flanders | www.michelin.com | • | | | | |
| Michelman International Belgium | 6790 | Aubange | Wallonia | www.michelman.com | | • | | • | |
| Microtherm | 9100 | Sint-Niklaas | Flanders | www.microthermgroup.com | • | • | | | |
| Mikopac | 2360 | Oud-Turnhout | Flanders | www.mikopac.com | | | | • | |
| Milo Plastics | 2490 | Balen | Flanders | - | | | | | • |
| Mima Films | 6761 | Virton | Wallonia | www.mimaitw.com | | | | • | |
| Mineral Products International | 4671 | Barchon | Wallonia | www.mpi.be | | • | | | |
| MMP | 1440 | Braine-le-Château | Wallonia | - | • | | • | | • |
| Modelmakerij - Vormenbouw G. De Feyter | 2660 | Hoboken | Flanders | - | | | | | • |
| Moderna Products | 8870 | Kachtem | Flanders | www.modernaproducts.be | | | | | • |
| Mol D'Art | 3290 | Diest | Flanders | www.moldart.be | | | | • | |
| Mondi Belcoat | 2570 | Duffel | Flanders | www.mondigroup.com | | | | • | |
| Motorhomes Konings | 2500 | Koningshooikt | Flanders | www.motorhomeskonings.be | • | | | | |
| Multidop Kunststofartikelen | 2450 | Meerhout | Flanders | www.multidop.com | | | | | • |
| Multi-Fix | 3600 | Genk | Flanders | www.multi-fix.com | | • | | | |
| Mustad Belgium | 4700 | Eupen | Wallonia | www.mustad.be | • | | | | • |
| Nanocyl | 5050 | Sambreville | Wallonia | www.nanocyl.com | • | • | | | • |
| Neopack | 9300 | Aalst | Flanders | www.neopack.be | | | | • | |
| Nervia Plastics | 9400 | Ninove | Flanders | www.nervioplastics.be | | | | • | |
| New Eurac | 8700 | Tielt | Flanders | www.neweurac.be | | • | | | |



| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|---------------------------------------|------|--------------------|----------|--|------------|--------------|---------|-----------|-----------|
| Nexans Benelux | 9320 | Erembodegem | Flanders | www.nexans.be | | | | | • |
| Niko | 9100 | Sint-Niklaas | Flanders | www.niko.be | | • | | | |
| Nippon Shokubai Europe NV | 2070 | Zwijndrecht | Flanders | www.shokubai.co.jp | | | | | • |
| Nitto Europe | 3600 | Genk | Flanders | www.nittoeur.com | • | | | | • |
| NMC | 4731 | Eynatten | Wallonia | www.nmc.eu | • | • | • | • | |
| Nomacorc | 4890 | Thimister-Clermont | Wallonia | www.nomacorc.be | | | | • | |
| Novacel Belgium | 2800 | Mechelen | Flanders | www.novacel.be | | | | • | |
| Novopolymers | 2870 | Puurs | Flanders | www.novopolymers.com | | • | | | • |
| Nwl Belgium Production | 9100 | Sint-Niklaas | Flanders | www.dymo.com | | | | | • |
| Ocas NV | 9060 | Zelzate | Flanders | www.ocas.be | | | | | • |
| Oerlikon Balzers Coating Benelux NV | 3800 | Sint-Truiden | Flanders | www.oerlikonbalzerscoating.com | | | | | • |
| Okt | 5030 | Gembloux | Wallonia | www.okt.com | | | | • | |
| Ombret Plastics | 4480 | Clermont-Sous-Huy | Wallonia | www.vlux.com | | • | | | |
| Omniform | 1301 | Bierges | Wallonia | www.omniform.be | | | | • | |
| Opticable | 7080 | Frameries | Wallonia | www.nexans.be | | • | | | • |
| Orac | 8400 | Oostende | Flanders | www.oracdecor.com | | • | • | | • |
| Orfit Industries | 2110 | Wijnegem | Flanders | www.orfit.com | | | • | | |
| Orineo | 3071 | Erps-Kwerps | Flanders | www.ordineo.com | | | | | • |
| Oroplastic | 8780 | Oostrozebeke | Flanders | www.oroplastic.be | | • | | • | |
| Pacific | 2050 | Antwerpen | Flanders | www.composiet-gevelbekleding.be | | • | | | |
| Panelco | 8581 | Kerkhove | Flanders | www.panelco.com | | • | | | |
| Paneltim | 8920 | Poelkapelle | Flanders | www.paneltim.com | | • | | | |
| Parcolys | 9700 | Oudenaarde | Flanders | www.aquastep.be | | • | | | |
| Parker Hannifin Manufacturing Belgium | 2850 | Boom | Flanders | www.parker.com | | | | | • |
| Paulstra Silentbloc | 1435 | Mont-Saint-Guibert | Wallonia | www.paulstra-vibrachoc.com | • | • | | | • |
| Peleman Industries | 2870 | Puurs | Flanders | www.unibind.com | | | | | • |
| Penne | 9300 | Aalst | Flanders | www.penne.be | | | | | • |
| Pentair Manufacturing | 2200 | Herentals | Flanders | www.pentair.com | | | | | • |
| Physiol | 4031 | Angleur | Wallonia | www.physiol.be | | | • | | |
| Pierret Extrusion | 6890 | Transinne | Wallonia | www.pierret-system.com | | • | | | |



DIRECTORY OF COMPANIES

| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|-------------------------------------|------|-------------|----------|--|------------|--------------|---------|-----------|-----------|
| Pipelife Belgium | 1050 | Brussels | Brussels | www.pipelife.be | | • | | | |
| Pipelife Belgium | 2920 | Kalmthout | Flanders | www.pipelife.be | | • | | | |
| Pirelli Tyres Belux SA | 1000 | Brussels | Brussels | www.pirelli.com | • | | | | |
| Pirep Belgium | 3090 | Overijse | Flanders | www.pirep.be | | | | | • |
| Pla-Ma Belgium | 8850 | Ardoie | Flanders | www.arplamagroup.com | • | | | | |
| Planopack Belgium | 8560 | Wevelgem | Flanders | www.planopack.com | | | | • | |
| Plascobel | 3900 | Overpelt | Flanders | www.plascobel.be | | | | | • |
| Plastal | 9042 | Gent | Flanders | www.plastal.com | • | | | | |
| Plastec | 9810 | Nazareth | Flanders | www.plastec.eu | | • | | | |
| Plastibert & Cie | 8710 | Wielsbeke | Flanders | www.plastibert.be | | | | | • |
| Plastic Color | 2880 | Bornem | Flanders | www.helia-elektro.be | | | | | • |
| Plastic Constructies Robert Teblick | 2610 | Wilrijk | Flanders | www.teblick.be | | • | | | |
| Plastic Construction Technology | 3582 | Koersel | Flanders | www.pct.be | | • | | | |
| Plastic Dekeyser | 8980 | Zonnebeke | Flanders | www.plasticdekeyser.be | | • | | | |
| Plastic Force | 3840 | Borgloon | Flanders | www.plasticforce.be | | | | • | |
| Plastic Omnium | 2200 | Herentals | Flanders | www.plasticomnium.com | • | | | | |
| Plastic Productions | 9400 | Ninove | Flanders | www.plasticproductions.be | | | | | • |
| Plastic Solutions | 2288 | Bouwel | Flanders | www.plasticsolutions.be | | | | | • |
| Plastic Union | 8930 | Menen | Flanders | www.plasticunion.be | | | | • | |
| Plasticor | 2990 | Wuustwezel | Flanders | www.plasticor.be | | • | | | |
| Plasticraft | 8400 | Oostende | Flanders | www.plasticraft.be | | | | | • |
| Plastics Tmp | 1300 | Limal | Wallonia | www.plasticstmp.com | | | • | • | |
| Plastics Wauters | 6001 | Marcinelle | Wallonia | www.plasticswauters.be | | • | | | |
| Plastiek Hofstade | 9308 | Aalst | Flanders | www.plastiekhofstade.be | | • | | | |
| Plastiek Van Wauwe Bvba | 2100 | Deurne | Flanders | www.plastiekvw.be | | | | | • |
| Plastiflex Belgium | 3583 | Paal | Flanders | www.plastiflex.com | | | • | | • |
| Plastigi | 2200 | Noorderwijk | Flanders | www.plastigi.be | | • | | | • |
| Plastirol Belgium | 4280 | Hannut | Wallonia | www.plastirol.com | | | | • | |
| Plastisart | 6220 | Fleurus | Wallonia | www.plastisart.com | • | • | | • | |
| Plastiservice | 6040 | Jumet | Wallonia | www.plastiservice.com | | • | • | • | |



| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|-----------------------------|------|-------------------------|----------|--|------------|--------------|---------|-----------|-----------|
| Plastiservice D'Hont | 8793 | Sint-Eloois-Vijve | Flanders | www.plastiservice.com | | | | | • |
| Plastivan | 8780 | Oostrozebeke | Flanders | www.plastivan.com | | • | | | |
| Plastuni Operations | 9400 | Ninove | Flanders | www.somater.fr | | | | • | |
| Polimeri Europa Benelux | 1410 | Waterloo | Wallonia | www.polimerieuropa.it | • | • | • | • | • |
| Polymar | 1400 | Nivelles | Wallonia | www.polymar.be | • | | • | | • |
| Polyol Belgium | 2650 | Edegem | Wallonia | www.dow.com | • | • | • | • | • |
| Polyone Belgium | 5330 | Assesse | Wallonia | www.polyone.com | • | • | • | • | • |
| Polypreen België NV | 3920 | Lommel | Flanders | www.polypreen.com | | | | | • |
| Poly-Seal | 9240 | Zeel | Flanders | www.poly-seal.be | | | | • | |
| Poly-Tech Tienen | 3471 | Hoeleden | Flanders | - | | • | | | |
| Powerpack | 2340 | Beerse | Flanders | www.powerpack.be | | | | • | |
| Pragma-DM | 1620 | Drogenbos | Flanders | - | | • | | | |
| Precical | 4681 | Hermalle-Sous-Argenteau | Wallonia | www.precical.be | • | | • | | • |
| Pregis | 3830 | Wellen | Flanders | www.pregis.com | | | | • | |
| Procap Hoboken | 2660 | Hoboken | Flanders | www.procap.com | | | • | • | |
| Procoplast | 4700 | Eupen | Wallonia | www.procoplast.be | • | | | | • |
| Procotex | 7711 | Dottignies | Wallonia | www.procotex.com | • | • | | • | • |
| Profel | 3900 | Overpelt | Flanders | www.profel.be | | • | | | |
| Profialis | 8720 | Oeselgem | Flanders | www.profialis.com | | • | | | |
| Profine Belux Bvba | 1731 | Zellik | Flanders | www.kommerling.be | | • | | | |
| Proker Industrial Packaging | 3600 | Genk | Flanders | www.induspack.be | | | | • | |
| Promens | 9810 | Eke | Flanders | www.promens.com www.polimoon.com | • | | • | • | • |
| Pullmaflex | 8560 | Wevelgem | Flanders | www.leggett-automotive.com | • | | | | |
| Quadrant CMS | 8700 | Tielt | Flanders | www.quadrantcms.com | | | • | | • |
| Quadrant EPP Belgium | 8700 | Tielt | Flanders | www.quadrantepp.com | | | | | • |
| Quinn Plastics | 2440 | Geel | Flanders | www.quinn-plastics.com | | • | | | |
| R.C.M.D. | 9870 | Zulte | Flanders | www.rcmd.be | | | | | • |
| Radiant Color NV | 3530 | Houthalen-Helchteren | Flanders | www.radiantcolor.com | | | | | • |
| Ravago Plastics | 2370 | Arendonk | Flanders | www.ravago.com | | • | | • | |



DIRECTORY OF COMPANIES

| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|------------------------------|------|----------------|----------|--|------------|--------------|---------|-----------|-----------|
| Ravago Plastics Luxembourg | 6761 | Latour | Wallonia | www.ravago.com | • | • | | • | |
| Reboplast | 8760 | Meulebeke | Flanders | www.reboplast.com | | | | | • |
| Recticel | 9230 | Wetteren | Flanders | www.recticel.com | | | | | • |
| Reddy | 7180 | Seneffe | Wallonia | www.reddy.be | | • | | | • |
| Rehau | 3001 | Heverlee | Flanders | www.rehau.be | • | • | | | • |
| Renolit Belgium | 9700 | Bevere | Flanders | www.renolit.com | • | • | • | • | • |
| Reprocover | 4841 | Henri-Chapelle | Wallonia | www.reprocover.com | | • | | | |
| Resarm Engineering Plastics | 4671 | Barchon | Wallonia | www.resarm.com | • | • | | • | • |
| Resil Belgium NV | 9230 | Wetteren | Flanders | www.resilium.be | | | | | • |
| Resilux | 9230 | Wetteren | Flanders | www.resilux.com | | | | • | |
| Re-Tyre Lommel | 3920 | Lommel | Flanders | www.rubber-resources.com | • | | | | |
| Robert Bosch Productie NV | 3300 | Tienen | Flanders | www.bosch.be | • | | | | • |
| Robinplast | 2300 | Turnhout | Flanders | - | | | | • | |
| Röchling Automotive Gijzegem | 9308 | Gijzegem | Flanders | www.roechling.com | • | | | | |
| Roltex | 9320 | Aalst | Flanders | www.roltex.be | | | | | • |
| Rolvaplast | 9800 | Deinze | Flanders | www.rolvaplast.be | | • | | | |
| Rowin Plastics | 2820 | Bonheiden | Flanders | www.rowin.com | | | | | • |
| Roxell NV | 9990 | Maldegem | Flanders | www.roxell.be | | | | | • |
| Rpc Bramlage Antwerpen | 2610 | Wilrijk | Flanders | www.rexam.com | | | | • | |
| Rpc Cobelplast | 9160 | Lokeren | Flanders | www.rpc-cobelplast.be | | | | • | |
| Rpc Packaging Gent | 9000 | Gent | Flanders | www.nampak.com | | | | • | |
| Rpm Belgium | 8700 | Tielt | Flanders | www.rpm-belgium.be | | • | | | |
| Rubber Recycling Overpelt | 3900 | Overpelt | Flanders | www.rubberrecycling.be | • | | | | |
| Rubbergreen | 7080 | Frameries | Wallonia | www.rubbergreen.eu | | • | | | • |
| Ruflex | 2170 | Merksem | Flanders | www.ruflex.be | • | | | | • |
| SABCA | 1130 | Brussels | Brussels | www.sabca.com | • | | | | • |
| SABCA Limburg | 3560 | Lummen | Flanders | www.sabca.com | • | | | | • |
| Sabena Technics Bru NV | 1930 | Zaventem | Flanders | www.sabenatechnics.com | | | | | • |
| Sabert Europe | 1400 | Nivelles | Wallonia | www.sabert.com | | | | • | |
| Sabic Belgium | 3600 | Genk | Flanders | www.sabic-europe.com | | | | | • |



| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|---|------|--------------|----------|--|------------|--------------|---------|-----------|-----------|
| Saccol NV | 2300 | Turnhout | Flanders | www.saccol.com | | | | | • |
| St-Gobain PPL Kontich | 2550 | Kontich | Flanders | www.saint-gobain.com | | • | | | • |
| St-Gobain Performance Plastics Chaineux | 4650 | Chaineux | Wallonia | www.saint-gobain.com | • | • | | | |
| Saluc | 7604 | Callenelle | Wallonia | www.aramith.com | | | | | • |
| Samsonite | 9700 | Oudenaarde | Flanders | www.samsonite-europe.com | | | | | • |
| Sapac Packaging & Recycling | 9800 | Deinze | Flanders | www.sapac.be | | | | • | |
| Savic | 8501 | Heule | Flanders | www.savic.be | | | | | • |
| Schlegel Bvba | 8570 | Gistel | Flanders | www.schlegel.com | | | | | • |
| Schoeller Allibert | 3970 | Leopoldburg | Flanders | www.schoellerallibert.com | | | | • | • |
| Sealtech (Hydraulic Seals Technology) | 4800 | Verviers | Wallonia | www.sealtech.be | | | | | • |
| Sealux | 6880 | Bertrix | Wallonia | www.sealuxsa.eu | | • | | | • |
| Segers en Balcaen | 1770 | Liedekerke | Flanders | www.segers-balcaen.com | | | | • | |
| Sentera Europa | 9140 | Temse | Flanders | www.senteracontrols.com | | | | | • |
| Serpo | 9100 | Sint-Niklaas | Flanders | www.serpo.be | | | | | • |
| Serviplast | 6600 | Bastogne | Wallonia | www.serviplast.be | • | | | • | • |
| Seuropak | 8560 | Wevelgem | Flanders | www.seuropak.com | | | | • | |
| Seynhaeve Plastics | 8830 | Hooglede | Flanders | www.seynhaeve-plastics.be | | • | | | |
| Sidaplast | 9050 | Gentbrugge | Flanders | www.sidaplast.com | | | | • | |
| Simonis Plastic | 4430 | Ans | Wallonia | www.simonis-plastic.be | • | | • | • | • |
| Simtech | 7503 | Froyennes | Wallonia | www.simtech.be | • | | | | • |
| Smart Flow | 7700 | Mouscron | Wallonia | www.smart-flow.com | | | | • | |
| Smartroof | 8850 | Ardoie | Flanders | www.smartroof.be | | • | | | |
| Smisdom Plastics | 3800 | Sint-Truiden | Flanders | www.smisdomplastics.be | | | | | • |
| Socaplast | 1840 | Londerzeel | Flanders | www.socaplast.be | | | | • | • |
| Société belge de matériaux composites | 4431 | Loncin | Wallonia | www.sobelcomp.be | • | • | • | • | • |
| Sodripack | 1000 | Brussels | Brussels | www.retal.fr | | | | • | |
| Solidor Rubber & Products | 8930 | Menen | Flanders | www.solidor.be | | • | | | • |
| Solvay | 1120 | Brussels | Brussels | www.solvay.com | • | • | • | • | • |
| SolVin | 1120 | Brussels | Brussels | www.solvay.com | • | • | • | • | • |
| Sonaca | 6041 | Gosselies | Wallonia | www.sonaca.com | | | | | • |



DIRECTORY OF COMPANIES

| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|--|------|-------------|----------|--|------------|--------------|---------|-----------|-----------|
| Soprema | 2160 | Wommelgem | Flanders | www.soprema.be | | • | | | |
| Soudal | 2300 | Turnhout | Flanders | www.soudal.com | | • | | | |
| Sovaplastics | 8700 | Tielt | Flanders | sovaplasticsbe.webhosting.be | • | • | • | • | • |
| Spadel | 4900 | Spa | Wallonia | www.spadel.com | | | | • | |
| Spiromatic | 9810 | Nazareth | Flanders | www.spiromatic.com | | • | | | |
| Spv Goodplast | 7170 | Manage | Wallonia | www.goodplast.com | | • | | | |
| Starco | 2850 | Boom | Flanders | be.starco.com | • | | | | |
| Stillemans NV | 1731 | Zellik | Flanders | www.stillemans.com | | | | | • |
| Stockplastics-Vormspuitwerk | 8750 | Wingene | Flanders | www.stp.be | | | | | • |
| Stokvis Tapes | 1800 | Vilvoorde | Flanders | www.stokvistapes.com | | | | | • |
| Superfos Wetteren | 9230 | Wetteren | Flanders | www.superfos.com | | | | • | |
| Tata Steel Belgium - Packaging Steels NV | 2570 | Duffel | Flanders | www.tatasteeleurope.com | | | | • | |
| Technic-Gum | 7060 | Soignies | Wallonia | www.technicgum.com | | • | | | • |
| Technics & Applications | 2440 | Geel | Flanders | www.t-and-a.be | | • | | | |
| Tecos | 9200 | Dendermonde | Flanders | www.tecos.eu | | • | | | • |
| Tekniplex Europe | 9320 | Erembodegem | Flanders | www.tekni-plex.com | | | • | | • |
| Tenax | 8830 | Hooglede | Flanders | www.tenax.be | | | | | • |
| Tenco Proto | 3740 | Bilzen | Flanders | www.tenco-proto.com | | | | | • |
| Tente | 9770 | Kruishoutem | Flanders | www.tente.be | | | | | • |
| Terumo Europe | 3001 | Heverlee | Flanders | www.terumo-europe.com | | | • | | |
| The European Van Company NV | 8000 | Brugge | Flanders | www.aluvan.com | • | | | | |
| Ti Automotive Systems NV | 9160 | Lokeren | Flanders | www.tiauto.com | • | | | | |
| Tip Top Belting | 3600 | Genk | Flanders | www.tiptopbelting.be | | | | | • |
| Tip-Top I.C.B. | 9900 | Eeklo | Flanders | www.tiptopicb.be | | | | | • |
| Total Petrochemicals Feluy | 7181 | Feluy | Wallonia | www.totalpetrochemicals.com | • | • | • | • | • |
| Total Petrochemicals | 1040 | Brussels | Brussels | www.total.com | • | • | | • | • |
| Transbox | 2250 | Olen | Flanders | www.omniform.be | | | | • | |
| Transportbanden Bruynooghe | 8830 | Hooglede | Flanders | www.bruynooghe-nv.be | | | | | • |
| Trelleborg Wheel System Belgium | 9940 | Evergem | Flanders | www.trelleborg.com | • | | | | • |
| Tumag | 2300 | Turnhout | Flanders | www.tumag.be | | | | | • |



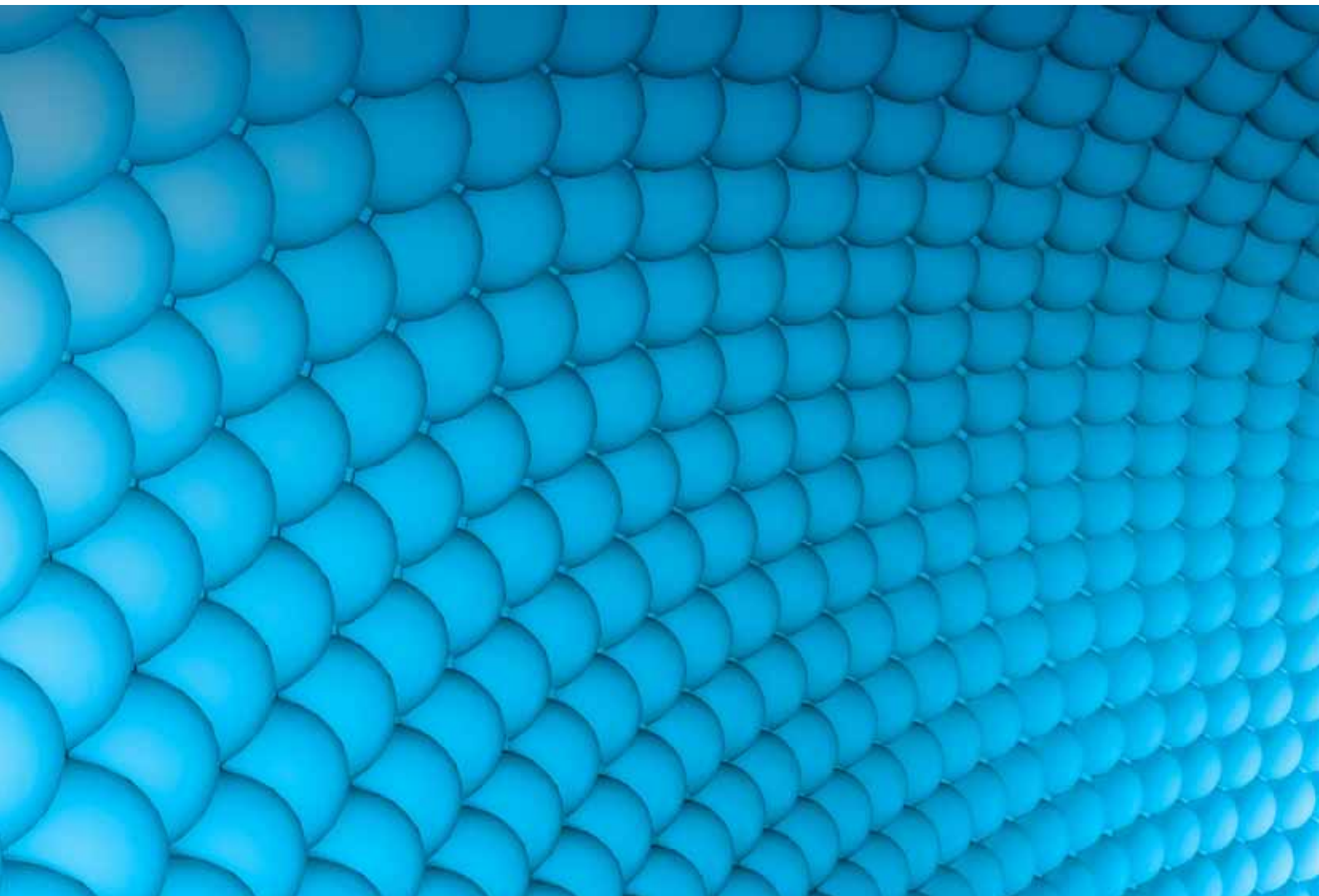
| TITLE | ZIP | CITY | REGION | SITE | AUTOMOTIVE | CONSTRUCTION | MEDICAL | PACKAGING | TECHNICAL |
|--------------------------------|------|---------------------|----------|--|------------|--------------|---------|-----------|-----------|
| Tupperware Belgium | 9300 | Aalst | Flanders | www.tupperware.com | | | | | • |
| Twinplast | 2861 | O-L-V-Waver | Flanders | www.polysiertegels.be | | | | • | • |
| Tyco Electronics Raychem | 3010 | Kessel-Lo | Flanders | www.tycoelectronics.com | | | | | • |
| U F C Flexibles | 9500 | Geraardsbergen | Flanders | users.skynet.be/fa429801 | | | | • | |
| Unigom | 8560 | Wevelgem | Flanders | www.unigom.be | • | | | | |
| United Packaging Industry | 3150 | Haacht | Flanders | www.upibags.com | | | | • | |
| United Seals Asemia | 1785 | Merchtem | Flanders | www.united-seals.com | | | | | • |
| Universal Rubber Manufacturing | 1830 | Machelen | Flanders | www.urm.be | | | | | • |
| V.D.T. Rubber en Plastics | 1930 | Zaventem | Flanders | www.vdtnv.be | | | | | • |
| Valeo Vision Belgique | 7822 | Meslin-L'Évêque | Wallonia | www.valeo.com | • | | | | |
| Valeron Strength Films | 2910 | Essen | Flanders | www.valeron.com | | | | • | • |
| Van De Wiele Rubber | 9690 | Berchem-Oudenaarde | Flanders | www.vandewiele-rubber.be | | | | | • |
| Van Os - Duracoat | 2620 | Hemiksem | Flanders | www.vanos-duracoat.com | | | | | • |
| Vaneflon | 9220 | Hamme | Flanders | www.vaneflon.be | | • | | | • |
| Vanheede Polymers & Compounds | 3600 | Genk | Flanders | www.vanheede.com | | | | | • |
| Van Hool NV | 2500 | Koningshooikt | Flanders | www.vanhool.be | • | | | | |
| Varec | 2800 | Mechelen | Flanders | www.varec.be | • | | | | • |
| Varitape | 9140 | Temse | Flanders | www.varitape.be | | | | | • |
| Velghe M. NV | 8580 | Avelgem | Flanders | www.mvabelgium.be | | • | | | |
| Velux | 1301 | Bierges | Wallonia | www.velux.be | | • | | | |
| Verbeeck.M.Plastics | 2250 | Olen | Flanders | - | | | | • | |
| Verdeyen - Vlux | 3400 | Landen | Flanders | www.vlux.com | | • | | | • |
| Verimpex | 8000 | Brugge | Flanders | www.verimpex.be | • | | | | • |
| Vertirama | 8700 | Tielt | Flanders | www.vertirama.be | | • | | | |
| Vetex | 8790 | Ingelmunster | Flanders | www.vetex.be | | | • | | • |
| Vft Trading | 9060 | Zelzate | Flanders | www.ruetgers-group.com | | | | | • |
| Victaulic Europe Vbr | 9810 | Nazareth | Flanders | www.victaulic.com | | • | | | |
| Viega | 1932 | Sint-Stevens-Woluwe | Flanders | www.viega.com | | • | | | |
| Vigotec Akatherm NV | 2870 | Puurs | Flanders | www.vigotecAkatherm.be | | • | | | |
| Vinya-Plastics | 2150 | Borsbeek | Flanders | www.vinya.be | | | | • | |

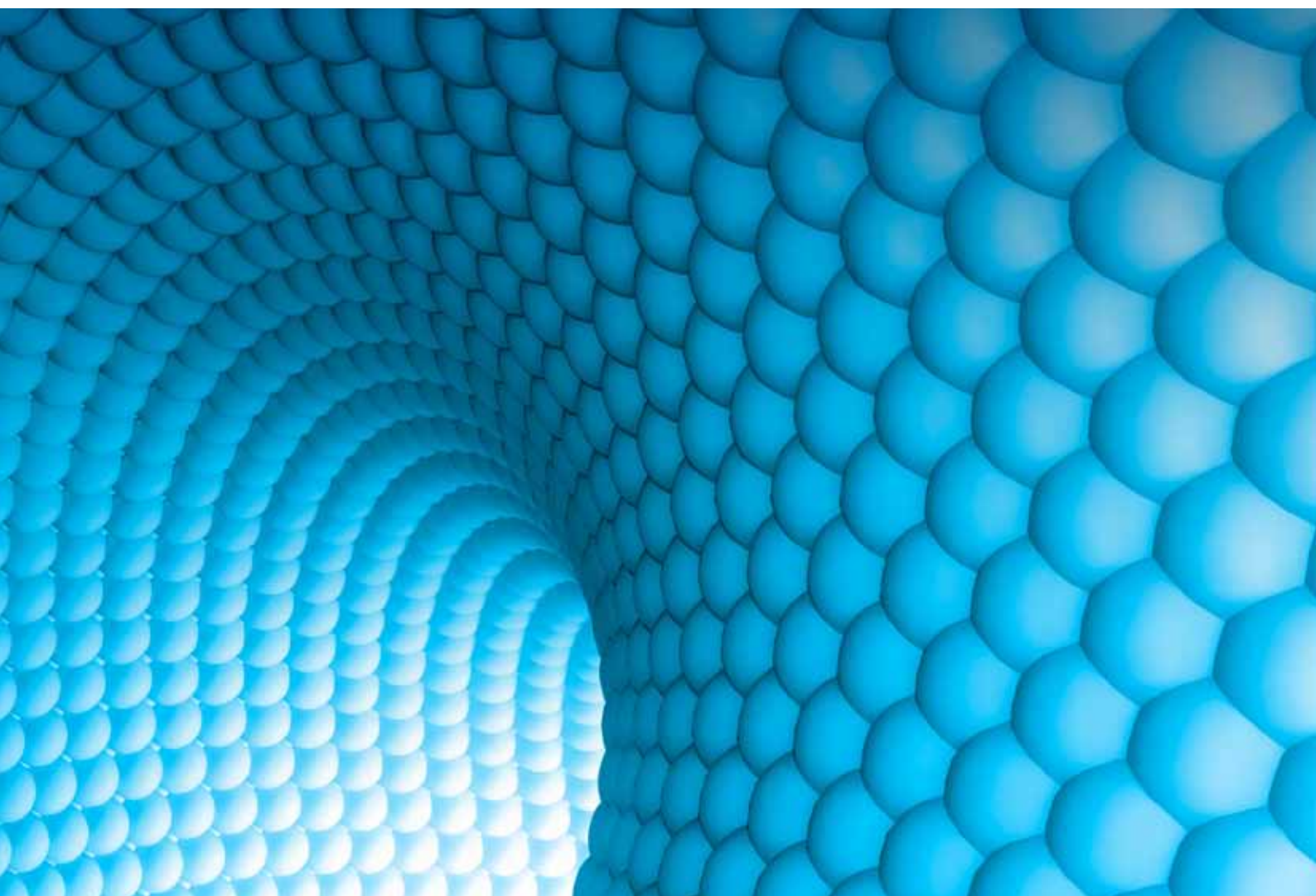
DIRECTORY OF COMPANIES

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|-------------------------|------|--------------|----------|--|------------|--------------|---------|-----------|-----------|
| Visalux | 8500 | Kortrijk | Flanders | www.visalux.com | | | | • | |
| Visio Ing Consult | 4280 | Hannut | Wallonia | www.visioingconsult.be | • | • | • | • | • |
| Visko Teepak | 3920 | Lommel | Flanders | www.viskoteepak.com | | | | • | |
| Vitalo Industries | 8760 | Meulebeke | Flanders | www.vitalo.be | | | • | • | • |
| Vlieghe Kunststof | 8500 | Kortrijk | Flanders | www.vlieghe.be | | • | | | |
| Voxdale | 9100 | Sint-Niklaas | Flanders | www.voxdale.be | | | | • | |
| Vr Plastics | 8700 | Tielt | Flanders | www.vrplastics.be | | | | • | |
| Vulkoprin | 8700 | Tielt | Flanders | www.vulkoprin.be | | | | | • |
| Vuye Flexible Packaging | 9700 | Oudenaarde | Flanders | www.vuye.com | | | | • | |
| Vyncolit | 9000 | Gent | Flanders | www.sbhpp.com | | | | | • |
| Waak | 8520 | Kuurne | Flanders | www.waak.be | | | | | • |
| Wallbox | 7700 | Mouscron | Wallonia | www.wallbox.be | | | | • | |
| Watts Insulation NV | 3110 | Rotselaar | Flanders | www.wattsinsulation.com | | • | | | |
| Wavin Belgium | 9880 | Aalter | Flanders | www.wavin.com | | • | | | |
| Weise Flexible | 8980 | Zonnebeke | Flanders | - | | | | • | |
| Winco Plastics | 2580 | Putte | Flanders | www.winco-plastics.com | | | | | • |
| Winsol Industries | 8870 | Izegem | Flanders | www.winsol.eu | | • | | | |
| Wow Technology | 5100 | Naninne | Wallonia | www.wowtechnology.com | • | • | • | • | • |
| X-Pack | 4800 | Ensival | Wallonia | www.x-pack.be | • | • | | • | |
| Xtraflex | 2500 | Lier | Flanders | www.xtraflex.com | | | | | • |
| Yamauchi Corp. | 3500 | Hasselt | Flanders | www.yamauchi.co.jp | | | | | • |
| Zweko Optics | 3950 | Bocholt | Flanders | www.zweko.com | • | | • | | • |











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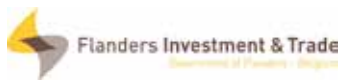
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