

The High Performance Materials business unit

The High Performance Materials (HPM) business unit of specialty chemicals company LANXESS is one of the leading producers of the engineering plastics polyamide (PA) and polybutylene terephthalate (PBT) and of thermoplastic fiber composites.

High-performance plastics

HPM's polyamides (PA 6 and PA 6.6) are marketed under the name Durethan, while its PBT polyesters are sold under the Pocan brand name. Both plastic product lines comprise exceptionally versatile polymer materials with high innovation potential that are primarily used to make a number of technically sophisticated components. Products made of Durethan and Pocan can withstand substantial mechanical stresses and display outstanding reliability in continuous service. Their main fields of application are the automotive industry, which is the biggest customer, plus the electrical/electronics industry, construction, medicine, and the sports and leisure sectors. LANXESS engineering plastics help to replace metals with lighter-weight plastic alternatives. They also enable several functions to be combined in a single component, offering carmakers and automotive suppliers significant cost benefits through more cost-effective manufacture and simplified assembly.

Composite materials

The wholly owned LANXESS subsidiary Bond-Laminates GmbH based in Brilon, Germany, specializes in developing and producing customized plastic composites. These are plastics reinforced with materials such as glass fibers. This composite technology is sold under the brand Tepex.

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Background Information

HiAnt – tailored customer service

HPM supports its customers extensively with the development of components. These services are part of its HiAnt customer service package. The HiAnt brand encompasses all of the High Performance Materials business unit's engineering expertise. This know-how extends to engineering thermoplastics, composite technologies, component testing, simulation methods and processing.

Backward integration

One special feature of the High Performance Materials business unit is the high level of backward integration of its production processes. HPM not only operates production plants for the plastics themselves, it also produces the relevant raw materials such as cyclohexanol, cyclohexanone, caprolactam and glass fibers. These products are not only for the business unit's own use, they are also marketed.

The High Performance Materials business unit is part of the LANXESS Performance Chemicals segment, which generated sales of EUR 3.9 billion in 2015. It is headed by Michael Zobel and currently employs around 1,500 people.

Main brands

Durethan®: Engineering plastics based on polyamide (PA) 6 and 6.6, which combine high mechanical strength and stiffness with good electrical insulating properties and resistance to heat, chemicals and abrasion. The product portfolio includes both glass-fiber-reinforced and mineral-reinforced grades, as well as flame-retardant, extra-tough and easy-flow polyamides.

Pocan®: Engineering plastics based on polybutylene terephthalate (PBT) featuring outstanding heat resistance, excellent slip properties and good chemical resistance and resistance to stress cracking. The range also includes various reinforced types as well as ASA and PC blends plus elastomer-modified specialty grades and grades

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approved for food contact applications. In addition to injection molding grades, there are also grades for the production of semi-finished goods, film and cable sheathing.

Tepex®: Composite sheets reinforced with continuous fibers based on thermoplastics. This family of materials is already used to successful effect in automotive engineering, consumer electronics and sports applications. The strengths of Tepex are its high stiffness and outstanding strength despite very low weight. It is far stronger than steel, aluminum and magnesium, for example.

Sites:

Dormagen (development), Krefeld-Uerdingen (PA 6 polymerization, compounding); Hamm-Uentrop (PBT polymerization, compounding); Brilon (Tepex production and development); Antwerp, Belgium (PA 6 polymerization); Wuxi, China; Jhagadia, India (compounding); Gastonia, United States; Porto Feliz, Brazil (compounding).

Dormagen is home to the headquarters of the High Performance Materials business unit and a research and applications development center for high-performance plastics. Other applications development centers can be found in Pittsburgh, United States; Sao Paulo, Brazil; and Hong Kong, China.

For more detailed information go to:

www.durethan.com

www.pocan.com

www.tepex.com

www.hiant.lanxess.com.

LANXESS is a leading specialty chemicals company with sales of EUR 7.9 billion in 2015 and about 16,700 employees in 29 countries. The company is currently represented at 55 production sites worldwide. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, specialty chemicals and plastics. Through ARLANXEO, the joint venture with Saudi Aramco, LANXESS is also a leading supplier of synthetic rubber. LANXESS is listed in the leading sustainability indices Dow Jones Sustainability Index (DJSI World) and FTSE4Good.

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Forward-Looking Statements

This news release may contain forward-looking statements based on current assumptions and forecasts made by LANXESS AG management. Various known and unknown risks, uncertainties and other factors could lead to material differences between the actual future results, financial situation, development or performance of the company and the estimates given here. The company assumes no liability whatsoever to update these forward-looking statements or to conform them to future events or developments.

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