

Solutions for

Fibres



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Borealis and Borouge – leading, innovative plastics providers

Borealis and Borouge are a leading provider of chemical and innovative plastics solutions that create value for society. With sales of EUR 4.7 billion in 2009, customers in over 120 countries, and 5,200 employees worldwide, Borealis is owned 64 % by the International Petroleum Investment Company (IPIC) of Abu Dhabi and 36 % by OMV, the leading energy group in the European growth belt. Borealis is headquartered in Vienna, Austria, and has production locations, innovation centers and customer service centers across Europe and the Americas. Through Borouge, a joint venture between Borealis and the Abu Dhabi National Oil Company (ADNOC), one of the world's major oil companies, the company's footprint reaches out to the Middle East, Asia Pacific, the Indian sub-continent and Africa. Established in 1998, Borouge employs approximately 1,400 people, has customers in more than 50 countries and its headquarters are in Abu Dhabi in the UAE and Singapore. Building on the unique Borstar® technology and their experience in polyolefins for more than 50 years, Borealis and Borouge provide innovative, value creating plastics solutions for the infrastructure (pipe systems and power and communication cables), automotive and advanced packaging markets. In addition, Borealis offers a wide range of base chemicals from melamine and plant nutrients to phenol and acetone.

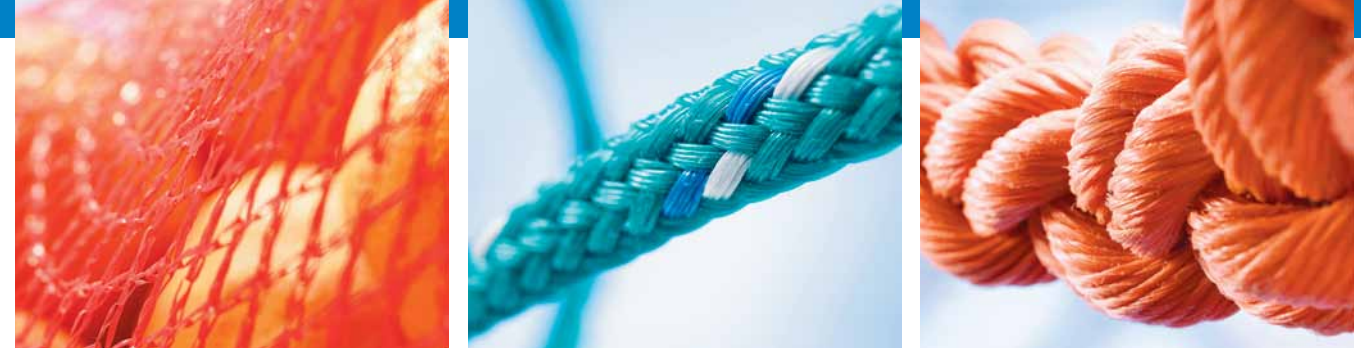
Today Borealis and Borouge manufacture over 4 million tonnes of polyolefins (polyethylene and polypropylene) per year. Borouge is currently tripling its polyolefins manufacturing capacity to 2 million tonnes per year (t/y) by mid-2010 and an additional 2.5 million t/y is scheduled for 2013. The companies continue to invest to ensure that their customers throughout the value chain, across the globe, can always rely on product quality, consistency and security of supply. Borouge and Borealis are committed to the principles of Responsible Care® and proactively contribute to addressing the world's water and sanitation challenges through their Water for the World™ initiative.

Borealis' film and fibre business specialises in supplying advanced polyolefin plastics for the manufacture of film, fibre, coating and thermoforming products. Through foresight and focus on our customers' needs, Borealis provides innovative solutions that add real value throughout the value chain. With over 50 years of experience and pioneering solutions for the film and fibre industry, Borealis has established a leading position on the film and fibre market across Europe, the Middle East and Asia.

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Market segment	Product name	MFR 230°C/2.16 kg [g/10 min]	MWD N M B	Additives gasfading free	Additives Antigasfading	Properties	Applications
PP floor covering and textiles							
Continuous filament	HE465FB	11	N	•	-	High tenacity	Continuous Filament (CF) yarns
(BCF, FDY, POY)	HG265FB	26	M	•	-	High speed	Bulk continuous filament (BCF) for floor covering
	HG455FB	27	N	-	•	Enhanced spinning performance and anti gasfading formulation	Partial oriented yarns (POY) for woven and knitted fabrics
	HH450FB	37	N	-	•	Enhanced spinning performance and anti gasfading formulation	Fine dtex partial oriented yarns (POY) for woven and knitted fabrics
PP technical textiles							
Strapping	HA507MO	0.8	B	-	-	Good mechanical properties	Heavy duty strapping
Tapes and monofilaments	HC115FB	2.8	M	-	-	Easy processing	Woven fabrics, ropes and twines
PP nonwoven							
Spunbonded	HF420FB	19	N	-	-	Improved mechanical properties	Geotextiles and hygienic products
	HG420FB	25	N	-	-	Enhanced spinning performance	Hygienic products
	HG455FB	27	N	-	•	Enhanced spinning performance and anti gasfading formulation	Hygienic products
	HH450FB	37	N	-	•	Enhanced spinning performance and anti gasfading formulation	Hygienic products
Meltblown	Borflow™ HL504FB	450	N	-	-	Pelletized	Hygienic and oil absorption products
	Borflow™ HL508FB	800	N	-	-	Pelletized, excellent consistency	Filtration and hygienic products
	Borflow™ HL512FB	1,200	N	-	-	Pelletized	Ultra fine dtex / fine filtration and hygienic products

Market segment	Product name	MFR 190°C/2.16 kg [g/10 min]	MFR 190°C/21.6 kg [g/10 min]	Density [kg/m³]	MWD	Properties/applications
PE textiles						
Tapes	VS4470	0.65	16	946	N	Low fibrillation tendency, soft, used for cast film and blown film tapes/agricultural bale wrapping/raschel nets
Monofilaments	VS4580	0.60	16	958	N	Very high tenacity fibres/special requirements: new generation fibre lines/fishing nets
	VS5580	0.95	27	958	N	High tenacity fibres used for monofilament and tapes production

Test methods

Melt Flow Rate PP (230°C/2.16 kg) = ISO 1133
Melt Flow Rate PE (190°C/2.16 kg) = ISO 1133
Melt Flow Rate PE (190°C/21.6 kg) = ISO 1133
Density = ISO 1183D, ISO 1872-2B
MWD = Molecular Weight Distribution ranking by GPC

For Technical Data Sheets, Safety Data Sheets and Product Liability Statements please visit us at www.borealisgroup.com and www.borouge.com or contact your Borealis or Borouge representative.