



Polypropylene Fibres



Borealis: A leading, innovative provider of plastics solutions

Borealis is a leading, innovative provider of plastics solutions. Its technology shapes daily life products and forms the basis of next generation innovation and creative development in plastics.

With EUR 4 billion revenue in sales and 4,500 employees, Borealis has more than 40 years of experience as a reliable supplier of polyethylene (PE) and polypropylene (PP) products. Borealis today is a partner to its customers manufacturing and developing products such as food packaging, diapers, appliances, automotive parts, distribution pipes for water, gas and sewage, power cables, sporting equipment and medical devices.

Borealis is headquartered in Copenhagen, Denmark with innovation centres, customer service centres, and main production sites in Europe and the Middle East. Borealis has representative offices and operations in Asia, North and South America.

At its heart, the company's four values of Responsible, Respect, Exceed and Nimblivity™, define its way of doing business. For Borealis, success is driven by responsiveness, operational excellence and innovation.

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To learn more about Borealis visit
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Borealis Film and Fibre

The total Western European Polyolefins Film and Fibre market exceeds 10 million tonnes per annum, with an annual growth rate of approximately 4%. The Film and Fibre Business Unit supplies products to major converters in the application areas of film, fibre, coating, thermoforming and foam applications. Within these areas Borealis has a leading position in several key segments.

Six production sites at Beringen (Belgium), Burghausen (Germany), Kallo (Belgium), Porvoo (Finland), Rønningen (Norway), Schwechat (Austria) ensure that customers receive rapid and reliable deliveries.

Innovation centres for PP and PE are located in Linz (Austria) and Rønningen (Norway) respectively. Additional technical support activities are provided from Beringen (Belgium) and Porvoo (Finland).

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Borealis polypropylene and polyethylene products for fibres

Market segment	Product name	MFR 230°C/2.16 kg [g/10 min]	MWD N M B	Additives		Properties/applications
				Gasfading free	Anti- gasfading	
PP nonwoven						
Staple fibre (SF)	Borstar® HE345FB	12	M	•		Fine dtex/hygiene, high speed lines, excellent thermobonding.
	HE350FB	12	M		•	Fine dtex/hygiene, high speed lines, excellent thermobonding.
	HE351FB	12	M		•	Medium dtex/geotextiles, excellent long term heat stability.
	HG246FB	26	M	•		Fine dtex/hygiene, compact lines.
Spunbonded	HF420FB	19	N			Geotextiles and hygienic products, improved mechanical properties.
	HG420FB	25	N			Hygienic products.
	HG455FB	27	N		•	Hygienic products.
	HH420FB	37	N			Hygienic products, very fine dtex.
Meltblown	HH450FB	37	N		•	Technical and hygienic products, very fine dtex.
	Borflow™ HL604FB	450	N	New		Hygienic and oil absorption products.
	Borflow HL608FB	800	N	New		Filtration and hygienic products.
	Borflow HL612FB	1200	N	New		Ultrafine dtex, fine filtration and hygienic products.
PP floor covering and textiles						
Staple fibre (SF)	Borstar HE345FB	12	M	•		Coarse dtex, needle punched, spun yarn.
Continuous filament (BCF, FDY, POY)	HE445FB	11	N	•		High tenacity CF yarns.
	HF445FB	18	N	•		Fine dtex high tenacity CF yarns.
	HG245FB	26	M	•		BCF yarns for floor covering.
	HG455FB	27	N		•	POY yarns for woven and knitted fabrics.
	HH450FB	37	N		•	Fine dtex POY yarns for woven and knitted fabrics.
PP technical textiles						
Strapping	HA507MO	0.8	B			Good mechanical properties, heavy duty strapping.
Tapes and monofilaments	HB120FB	2.2	M			Good mechanical properties, woven fabrics, ropes and twines.
	Borstar HC115FB	2.8	M			Easy processing, woven fabrics, ropes and twines.

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
Tapes	VL4470	0,6	16	947	N	Low fibrillation tendency, soft, used for cast film and blown film tapes, agricultural bale wrapping, raschel nets.
Monofilaments	VL4580	0,6	16	958	N	Very high tenacity fibres, special requirements: new generation fibre lines, fishing nets.
	VL5580	0,95	26	958	N	High tenacity fibres used for monofilament and tape production.

Test methods

Melt flow rate PP (230°C/2.16kg) = ISO 1133
Melt flow rate PE (190°C/2.16kg) = ISO 1133

Melt flow rate PE (190°C/21.6kg) = 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 or contact your Borealis representative.