

About us

Borealis is a leading provider of innovative solutions in the fields of polyolefins, base chemicals and fertilizers. With headquarters in Vienna, Austria, Borealis currently employs around 6,500 and operates in over 120 countries. It generated EUR 8.3 billion in sales revenue in 2014. The International Petroleum Investment Company (IPIC) of Abu Dhabi owns 64% of the company, with the remaining 36% owned by OMV, the leading energy group in the European growth belt. Borealis provides services and products to customers around the world in collaboration with Borouge, a joint venture with the Abu Dhabi National Oil Company (ADNOC).

Building on its proprietary Borstar® and Borlink™ technologies and 50 years of experience in polyolefins, Borealis and Borouge support key industries including infrastructure, automotive and advanced packaging.

The Borouge 3 plant expansion in Abu Dhabi will be fully operational in 2015. Borouge 3 will deliver an additional 2.5 million tonnes of capacity when fully ramped up, bringing the total Borouge capacity to 4.5 million tonnes. Borealis and Borouge will then have approximately 8 million tonnes of polyolefin capacity.

Borealis offers a wide range of base chemicals, including melamine, phenol, acetone, ethylene, propylene, butadiene and pygas, servicing a wide range of industries. Together with Borouge the two companies will produce approximately 6 million tonnes of Base Chemicals in 2015.

Borealis also creates real value for the agricultural industry with a large portfolio of fertilizers. The company distributes approximately 2.1 million tonnes per year. This volume will increase to more than 5 million tonnes by the end of 2015.

Borealis and Borouge aim to proactively benefit society by taking on real societal challenges and offering real solutions. Both companies are committed to the principles of Responsible Care®, an initiative to improve safety performance within the chemical industry, and contribute to solve the world's water and sanitation challenges through product innovation and their Water for the World™ programme.

For more information visit:

www.borealisgroup.com
www.borouge.com
www.waterfortheworld.net
www.whoisqueo.com



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Borstar is a registered trademark of the Borealis Group. Borlink and Water for the World are trademarks of the Borealis Group.

For more information:

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PO Blown Film Applications

Summary Data Sheet



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PE Blown Film	MFR [g/10 min] 190°C/2.16 kg	MFR [g/10 min] 190°C/5 kg	MFR [g/10 min] 190°C/21.6 kg	Density [kg/m3]	Melting Temp. [°C]	AO	Anti-blocking agent [ppm]	Slip agent [ppm]	Other additives
Borstar® LLDPE									
FB2230	0.2	1.0	22	923	124	yes			
FB4230	0.4	2.0	44	923	124	yes			
FB2310	0.2	0.9	20	931	127	yes			
FB4370	0.4	2.1	42	937	128	yes			
FB3450	0.3	1.1	25	945	129	yes			
Borstar® MDPE									
FB1350		0.6	15	935	127	yes			
Borshape™									
FX1001	0.2	0.9	20	931	127	yes			
FX1002	0.4	2.0	42	937	128	yes			
LDPE Autoclave									
FA3221	0.3			922	110	yes			
FA3227	0.3			922	110	no			UV
FA5223	1.2			922	110	yes	850		
FA5224	1.2			922	110	yes	850	450	
FA6220	2.1			922	111	yes			
FA6224	2.1			922	111	yes	850	500	
FA7220	4.0			922	111	yes			
FA7224	4.0			922	111	yes	1,100	700	
FA7229	4.0			922	111	yes			AF/CA
LDPE Tubular									
FT3200	0.25			920		no			
FT5230	0.75			923		no			
FT5236	0.75			923		yes	800	550	
FT6230	2.00			923		no			
PP Blown Film	MFR [g/10 min] 230°C/2.16 kg	MWD	Melting Temp. [°C]	Nucleated	Tensile modulus MD/TD [MPa] (50 µm) ISO 527-3	Vicat A50 (°C) ISO 306	Properties	Applications	
PP Heterophasic Copolymers									
BA110CF	0.85	medium	166	no	1200/1100	150	Balanced stiffness/toughness ratio, sterilisable	Laminated film for food packaging, monoaxial oriented film, hygienic film, siliconisable film	
BC918CF	3.0	medium	168	yes	1550/1150	155	High stiffness/toughness balance, good optics after sterilisation	Stand-up pouch, label films	
PP Random Copolymers									
RB707CF	1.5	medium	145	yes	950/900	122	High stiffness and very good optics	Label film, laminated film, food packaging	
PP Random/Heterophasic Copolymers									
SA233CF	0.8	medium	141	no	500/500	114	Low temperature resistance, high softness and toughness	Hygienic film, industrial packaging, stand-up pouch	

Key:
MFR = Melt Flow Rate
MWD = Molecular Weight Distribution

Additives:
UV = UV stabilised
CA = Cling Additive
AF = Antifog
AO = Antioxidant

For more information on how Borealis can create value for your blown film applications, 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.