

The Bormed™ Concept

We understand that in the healthcare market, safety and efficiency of the product matters most, so you need the right partner to do business with in a reliable and meaningful way. We achieve this through our dedicated, constantly developing range of polyethylene and polypropylene grades, our global team and, critically, the Bormed™ concept. This is more than simply documentation and technical service, rather it is all encompassing – from product conception to production, procurement, support and distribution. It is based on the three core principles of service, commitment and conformance which cover the different aspects of active information management, change control and security of supply. Additionally, through our technical expertise and an ongoing, clear dialogue with our business partners, we remain at the forefront of healthcare trends and challenges allowing us to evolve our Bormed offering with the industry, providing tailored healthcare solutions for you. *Because we care.*

Commitment

Our commitment to and understanding of the healthcare market is tangible in everything we do. We provide security of supply, for the short and long term, with higher stock levels and planning prioritisation. We seek out cooperation with our business partners, the OEMs, converters and machinery suppliers. We believe in consistency – combined with step change innovation which we drive at our state of the art facility in Linz, Austria. Experience, technical expertise and a forward looking attitude make us the right partner for the healthcare market.



Service

It is important to have the right material and the right information at the right time in the right place. To achieve this, we steer information and notifications proactively, aiming to provide you with what you need to know, when you need it, in a concise and structured format. We lead open discussions with our business partners which enables us to remain at the forefront of industry trends and challenges. Through our dedicated global team of specialists, from R&D to technical support to sales and extensive dedicated distribution networks, we are able to provide fast and reliable delivery.

Conformance

Borealis' expertise results in a maintained consistency of the variables used to make polyolefins for the healthcare market – safeguarding continued regulatory compliance, be it the European or US Pharmacopeia, or ISO standards. Going beyond this, we have dedicated procedures in place to avoid uncontrolled changes and variations in quality. Our change control procedure ensures the highest quality standards. This goes hand in hand with enhanced operating instructions, which ensure that anyone involved in Bormed™, knows Bormed – from product development to production, supply chain and support functions.

Borealis and Borouge – leading, innovative plastics providers

Borealis and Borouge are leading providers of innovative plastics solutions that create value for society. Building on the unique Borstar® and Borlink™ technologies and 50 years of experience in polyolefins, Borealis and Borouge support key industries including infrastructure, automotive and advanced packaging. Their manufacturing capacity reaches over 5.4 million tonnes of polyethylene and polypropylene per year.

Borealis is headquartered in Vienna, Austria, and operates in over 120 countries with around 5,300 employees worldwide. Borouge, its joint venture with the Abu Dhabi National Oil Company (ADNOC), employs approximately 1,700 people, has customers in more than 50 countries and its headquarters are in Abu Dhabi in the UAE and Singapore. Together, both companies provide services and products to customers around the world.

In addition to polyolefins, Borealis offers a wide range of base chemicals, including melamine, phenol and acetone, for the oil and gas, household

appliances and fibres industries. The company produces approximately 2.3 million tonnes per year. Borealis also creates real value for the agribusiness industry with a large portfolio of fertilizers and a manufacturing capacity of approximately 1.7 million tonnes per year.

Borealis and Borouge proactively benefit society by taking on today's challenges and are working to drive ideas forward. Both companies are committed to the principles of Responsible Care®, driving improved safety performance within the chemical industry and contributing to addressing the world's water and sanitation challenges through product innovation and their Water for the World™ programme.

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Solutions for Healthcare Applications



SUMMARY DATA SHEET

Bormed products: dedicated polyolefins for healthcare applications



Type: PP	Grade	MFR 230°C/2,16Kg [g/10min] ISO 1133	Flexural Modulus [MPa] ISO 178	Charpy notched impact 23°C [kJ/m²] ISO 179/1eA	Melting point [°C] DSC	Special Features	European Pharmacopeia	United States Pharmacopeia	ISO 10993 ≠	DMF nr.	Extrusion Blow Moulding (EBM)	Injection/Injection Stretch Blow Moulding (IBM/ISBM)	Injection Moulding (IM)	Film
Homopolymer	DM55pharm	2.8	1,350	4.0	164		✓	✓		9146				•
Homopolymer	HD800CF	8	1,400	4.3	164		✓	✓		20240			•	•
Homopolymer	HD850MO	8	1,850	5.5	162		✓	✓	✓	17929			•	
Homopolymer	HD810MO	10	1,250	4.5	164	Nu, Rad		✓	✓	9040			•	
Homopolymer	HF840MO	19	1,250	3.5	160	Slip		✓	✓	9040			•	
Block Copolymer	BE860MO	13	1,400	8.0	164		✓	✓	✓	17930			•	
Random Copolymer	RB845MO	1.9	1,100	7.0	150		✓	✓		17931	•	•	•	
Random Copolymer	RB801CF	1.9	750	11.0	140		✓	✓		16484	•	•		•
Random Copolymer	RD804CF	8	1,000	4.8	151		✓	✓		24930		•	•	•
Random Copolymer	RD808CF	8	700	9.0	140		✓	✓		20244		•	•	•
Random Copolymer	RF825MO	20	1,100	6.0	150	Nu		✓	✓	12123			•	
Random Copolymer	RF830MO	20	1,100	6.0	150	Nu, Rad		✓	✓	12123			•	
Random Copolymer	RG835MO	30	1,200	6.0	150	Nu, Slip		✓	✓	12123			•	
Terpolymer	TD109CF	6	700		131		✓	✓		24931			•	•
Random-Heterophasic Copolymer / Soft PP	SA833CF	0.8	500	83.0	140		✓	✓		20238				•
Random-Heterophasic Copolymer / Soft PP	SC820CF	3.9	550	26.0	141		✓	✓		20243			•	•

Type: PE	Grade	MFR 190°C/2,16Kg [g/10min] ISO 1133	Density [Kg/m³] ISO 1183	Flexural Modulus [MPa] ISO 178	Melting point [°C] DSC	Special Features	European Pharmacopeia ≠	United States Pharmacopeia ≠	ISO 10993 ≠	DMF nr.	Extrusion Blow Moulding (EBM)	Injection/Injection Stretch Blow Moulding (IBM/ISBM)	Injection Moulding (IM)	Film
HDPE	HE2581-PH	0.3	958	1,250	131		✓			18041	•	•	•	
HDPE	HE7541-PH	4	954	950	129		✓	✓	✓	18351			•	
HDPE	HE9621-PH	12	962	1,300	133		✓	✓	✓	18040			•	
HDPE	HE9601-PH	31	960	1,200	131		✓	✓	✓	25900			•	
LDPE	LE6601-PH	1.5	922	200	111		✓	✓		8124	•		•	
LDPE	LE6607-PH	0.3	927	290	114		✓	✓		8124	•			
LDPE	LE6609-PH	0.3	930	330	117		✓	✓		17927	•			

Type: PO	Grade	MFR 230°C/2,16Kg [g/10min] ISO 1133	Density [Kg/m³] ISO 1183	Flexural Modulus [MPa] ISO 178	Melting point [°C] DSC	Special Features	European Pharmacopeia ≠	United States Pharmacopeia ≠	ISO 10993 ≠	DMF nr.	Extrusion Blow Moulding (EBM)	Injection/Injection Stretch Blow Moulding (IBM/ISBM)	Injection Moulding (IM)	Film
PO Specialty	Steripeel WD170CF	6.5	910	800	151		✓	✓		20242				•
PO Specialty	Steripeel WE150CF	12.5	925	1,000	151	Slip, AB		✓		-				•

Key:

Nu: Nucleation
Rad: Radiation package
Slip: Contains slip agent
AB: Antiblock
≠ Please refer to medical compliance statement on
<http://www.borealisgroup.com/e-services/datasheet/>

- Main application
- Secondary application

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