Summary Data Sheet

Bormed™ Solutions for Healthcare Applications

BOREALIS بروج Borouge

Bormed™ Products

Dedicated polyolefins for healthcare applications




Type: PP	Grade	MFR 230 °C / 2.16 kg [g/10 min] 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.	Blow-Fill-Seal (BFS) / Extrusion Blow Moulding (EBM)	Injection / Injection Stretch Blow Moulding (IBM / ISBM)	Injection Moulding (IM)	Film
Homopolymer	DM55pharm	2.8	1,400	3.5	164		✓	✓	*	009146			•	●
Homopolymer	HD800CF	8	1,600	3.0	164		✓	✓	✓	020240			•	●
Homopolymer	HD850MO	8	1,850	3.0	162		✓	✓	✓	017929			●	•
Homopolymer	HD810MO	10	1,250	4.5	164	Nu, Rad	*	✓	✓	009040			●	
Homopolymer	HF840MO	19	1,250	3.0	160	Slip	✓	✓	✓	009040			●	
Homopolymer	HG820MO	28	1,800	2.0	162	Nu	*	✓	✓	027799			●	
Random Copolymer	RB801CF	1.9	750	7.9	140		✓	✓		028484	●	•		●
Random Copolymer	RD804CF	8	1,000	4.0	150		✓	✓		028486		•	•	●
Random Copolymer	RD808CF	8	700	6.0	140		✓	✓		028487		•	•	●
Random Copolymer	RD834CF	8	1,000	4.0	150	AB, Slip	✓	✓		031866				●
Random Copolymer	RE816CF	11	800	5.0	145	AB	✓	✓		028485				●
Random Copolymer	RF825MO	20	1,100	6.0	150	Nu	*	✓	✓	031607			●	
Random Copolymer	RF830MO	20	1,100	5.0	150	Nu, Rad	*	✓	✓	031609			●	
Random Copolymer	RG835MO	30	1,200	5.0	150	Nu, Slip	*	✓	✓	031608			●	
Random Copolymer	RJ880MO	45	950	5.5	150	Nu, AS	*	✓	✓	027840			●	
Heterophasic Copolymer	BJ868MO	70	1,500	5.5	165		*	✓	✓	033438			●	
Random-Heterophasic Copolymer / Soft PP	SC820CF	3.9	550	12.0	141		✓	✓	*	020243			•	●
Random-Heterophasic Copolymer / Soft PP	SC876CF	3.8	330	77.0	148		✓	✓	*	027916				●
Terpolymer	TD109CF	6	700	4.0	131		✓	✓	*	024931			•	●

Type: PE	Grade	MFR 190 °C / 2.16 kg [g/10 min] 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.	Blow-Fill-Seal (BFS) / Extrusion Blow Moulding (EBM)	Injection / Injection Stretch Blow Moulding (IBM / ISBM)	Injection Moulding (IM)	Film
HDPE	HE2581-PH	0.3	958	1,400	131		✓	✓	✓	027656	●	●	•	
HDPE	HE7541-PH	4	954	1,250	129		✓	✓	✓	027654			●	
HDPE	HE9621-PH	12	963	1,200	133		✓	✓	✓	029149			●	
LDPE	LE6607-PH	0.3	927	270	115	No additives	✓	✓	*	008124/027108	●			•
LDPE	LE6609-PH	0.3	930	300	117	No additives	✓	✓	*	017927/028752	●	•		•
LDPE	LE6600-PH	1.5	919	170	110	No additives	✓	✓	*	027587	●	•		•

Type: Plastomers														
Plastomer	PL8830-PH	1.1	883	23	73		*	✓	✓	033070				●

All figures are typical values – data should not be used for specification work

Key:

AB: Anti-block
Nu: Nucleation
AS: Anti-static
Rad: Radiation package
Slip: Slip agent

✓ Grade has been tested. For detailed information please refer to medical compliance statement on www.borealisgroup.com

● Main application
• Secondary application

* For more information, please refer to the respective medical statement at borealisgroup.com ** In preparation

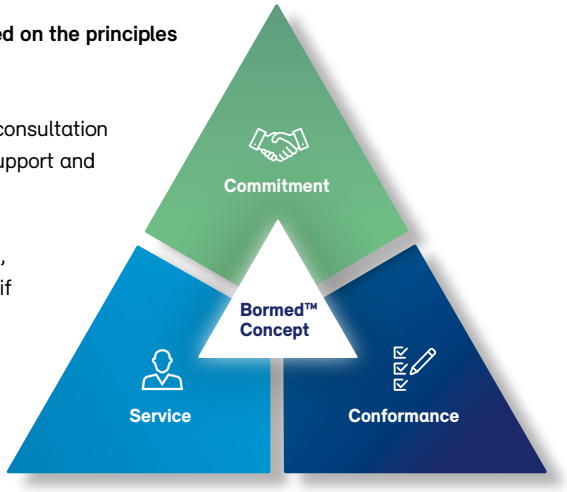
The Bormed™ **Concept**

With over 35 years of experience in the healthcare industry, Borealis Bormed™ is founded on the principles of service, commitment and conformance – Because we care.

Service: Get specialised project support from start to finish, including one-to-one expert consultation and unrivalled access to data that goes beyond product data sheet. By providing global support and thorough market understanding, we help you answer any challenge.

Commitment: Address your sustainability challenges and work towards long term success, with our grades remaining unchanged. While we are committed to the grades as they are, if they require changing, we will provide up to five years´ availability.

Conformance: Conform and adapt to current and future regulatory requirements around the world with Bormed. This safeguards your investment and enables significant cost savings over a project's lifetime, offering you independent pharmacopeia and ISO10993 analysis reports, and extractable testing data.



The Bormed Concept delivers

- Consistency of product recipe via rigorous change control procedure
- Bormed Directive: Operating instructions for the development, production, storage and delivery to the end customer of Bormed
- Continuity of supply to mitigate the risk of a change during your product life cycle: In case of change, product made available up to 5 years (2 years pre-notification and a last call volume combined with 3-year shelf life)
- Pharmacopeia compliance: Regular external testing of Ph. Eur., USP and ISO 10993 – analysis reports can be shared upon request; US DMF listing; following VDI 2017 guideline on "Medical Grade Plastics"
- Externally tested extractable profiles that can be shared upon request (under NDA) and can support your E&L testing programme
- Specific technical support given during the project development phase
- Moldflow data and other rheological characteristics
- Globally active dedicated team of experienced technical and regulatory specialists
- Bormed InCompounds: For tailor-made, customized solutions by partnering with trusted and recognized healthcare compounders (at present Avient, MELITEK, MOCOM and Wittenburg Group)

Embrace circularity

Bornewables™ & Borcycle™ C

Meet your sustainability targets with ISCC Plus-certified polyolefins produced from renewable or chemically recycled feedstocks. The Bornewables™ and Borcycle™ C offer the same material performance and regulatory compliance as virgin Bormed medical grades.

The Bornewables
The Bornewables offers circular Bormed polyolefins with a reduced carbon footprint and are produced with renewable feedstock derived entirely from waste and residue streams.

Borcycle C
Borcycle C is the chemically recycled line of Bormed and renews plastic back to plastic, giving polyolefin-based, post-consumer waste another life.

About Borealis Borealis is one of the world's leading providers of advanced and sustainable polyolefin solutions. In Europe, Borealis is also an innovative leader in polyolefins recycling and a major producer of base chemicals. We leverage our polymer expertise and decades of experience to offer value-adding, innovative and circular material solutions for key industries such as consumer products, energy, healthcare, infrastructure and mobility.

With customers in over 120 countries and head office in Vienna, Austria, Borealis employs around 6,200 people. In 2024, we generated a net profit of EUR 566 million. OMV, the sustainable chemicals, fuels and energy company with a focus on circular economy solutions, headquartered in Vienna, Austria, owns 75% of our shares. The Abu Dhabi National Oil Company (ADNOC), based in the United Arab Emirates (UAE), owns the remaining 25%.

In re-inventing essentials for sustainable living, we build on our commitment to safety, our people, innovation and technology, and performance excellence. We are accelerating the transformation to a circular economy of polyolefins and expanding our geographical footprint to better serve our customers around the globe. Our operations are augmented by two important joint ventures: Borouge (with ADNOC, headquartered in the UAE); and Baystar™ (with TotalEnergies, based in the US).

www.borealisgroup.com | www.borealiseverminds.com

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