

Bormed™ solutions for healthcare applications

Summary Data Sheet

Bormed™ SB815MO ampoules made by Brevetti



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	1,350	4.0	164		✓	✓	*	009146			●	●
Homopolymer	HD800CF	8	1,400	4.3	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	1,900	2.0	162	Nu	*	✓	✓	027799			●	●
Heterophasic Copolymer	BJ868MO	70	1,500	5.5	166		*	✓	✓	033438			●	●
Random Copolymer	RB801CF	1.9	750	11.0	140		✓	✓	*	028484	●	●		●
Random Copolymer	RD804CF	8	1,000	4.8	151		✓	✓	*	028486		●	●	●
Random Copolymer	RD808CF	8	700	9.0	140		✓	✓	*	028487		●	●	●
Random Copolymer	RD834CF	8	1,000	3.7	150	AB, Slip	✓	✓	*	031866				●
Random Copolymer	RE816CF	11	800	5.5	145	AB	✓	✓	*	028485				●
Random Copolymer	RE870MO	13	1,050	6.0	150		✓	✓	✓	031606		●	●	
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			●	
Random-Heterophasic Copolymer / Soft PP	SB815MO	1.5	425	80.0	145		✓	✓	✓	027540	●	●	●	●
Random-Heterophasic Copolymer / Soft PP	SC820CF	3.9	550	26.0	141		✓	✓	*	020243			●	●
Random-Heterophasic Copolymer / Soft PP	SC876CF	3.8	330	77.0	149		✓	✓	*	027916				●
Terpolymer	TD109CF	6	700	5.2	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	1,250	131		✓	✓	✓	027656	●	●	●	
HDPE	HE7541-PH	4	954	1,250	129		✓	✓	✓	027654			●	
HDPE	HE9621-PH	12	962	1,300	133		✓	✓	✓	029149			●	
LDPE	LE6607-PH	0.3	927	290	114	No additives	✓	✓	*	008124/027108	●			●
LDPE	LE6609-PH	0.3	930	330	117	No additives	✓	✓	*	017927/028752	●	●		●
LDPE	LE6600-PH	1.5	919	250	110	No additives	✓	✓	*	027587	●	●		●

Type: Plastomers	Grade	MFR	Density	Flexural Modulus	Melting point	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
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 <http://www.borealisgroup.com/en/search/>
 ● Main application
 ● Secondary application

* For more information, please refer to the respective medical statement at [borealisgroup.com](http://www.borealisgroup.com)

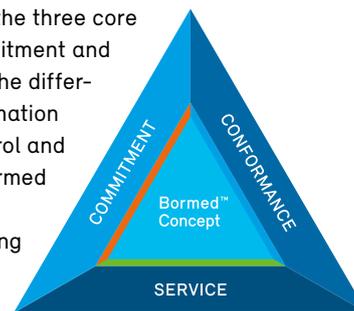
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Bormed is a trademark of the Borealis group.

The Bormed™ Concept

The well-being of patients is the paramount consideration of The Bormed Concept - Because we care. We understand that in the healthcare market, safety and efficiency of the product matter to deliver on the promise of patient safety. Thus, you need the right partner to do business with in a reliable and meaningful way. We achieve this through our Bormed range of polyethylene and polypropylene grades dedicated to the healthcare industry, 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. With Bormed we offer you peace of mind from the moment of selecting raw materials for healthcare packaging or devices. Because we care.



The Bormed™ Concept delivers:

- Consistency of the product recipe via rigorous change control procedure
 - Bormed™ Directive: operating instructions for the development, production, storage and delivery to the end customer of Bormed™ products
 - Pharmacopeia compliance: regular external testing of Ph. Eur., USP and ISO 10993 - analysis reports can be shared upon request; DMF listing; following VDI 2017 guideline on "Medical Grade Plastics"
 - Specific support given during the project development phase:
- Dedicated team of experienced technical and regulatory specialists active globally
 - Moldflow data and other rheological characteristics
 - Externally tested extractable profiles that can be shared upon request (under NDA) and can support your E&L testing programme evaluation
 - 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)

Ask our experts for the specific grade reports today: www.borealisgroup.com/contact

Solutions Bormed™ InCompounds



What exactly is Bormed™ InCompounds?

Being committed to always meet increasing customer requirements we partner with compound producers, who offer Bormed™ based tailor-made solutions to the market.

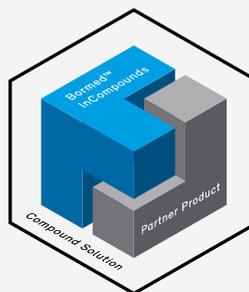
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What do our partners add to the equation?

The combination of expertise and cooperation with the right partners is essential for successful compounding solutions.



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What's in it for you?

Bormed™ trusted quality and conformance provides compounders with a dedicated Bormed™ portfolio for their offering to the healthcare market.

For more information visit borealis.becausewecare.com

Bormed™ - Because we care | Date of issue: August 2020

Borealis is a leading provider of innovative solutions in the fields of polyolefins, base chemicals and fertilizers. With its head office in Vienna, Austria, the company currently has more than 6,900 employees and operates in over 120 countries. Borealis generated EUR 8.1 billion in sales revenue and a net profit of EUR 872 million in 2019. Mubadala, through its holding company, owns 64% of the company, with the remaining 36% belonging to Austria-based OMV, an integrated, international oil and gas company. Borealis provides services and products to customers globally, in collaboration with Borouge, a joint venture with the Abu Dhabi National Oil Company (ADNOC) and with Baystar™, a joint venture with Total in Texas, USA.

For more information visit: www.borealisgroup.com · www.borealisbecausewecare.com

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