Bormed™ HE2581-PH

High Density Polyethylene

Borealis AG

Message:

Bormed HE2581-PH is a resin intended for evaluation for use in Healthcare applications.
Bormed HE2581-PH is a bimodal high density polyethylene typically used for blow moulding of articles up to 10 litres. Material is characterised by easy processing and products with high stiffness and very good environmental stress crack resistance (ESCR). Material can also be used for containers produced with IBM technology. Material can be sterilised with ethylene oxide, steam and radiation up till 35 kGy; as a result of sterilisation by radiation some minor yellowing can occur.

General Information	
Features	Bimodal Molecular Weight Distribution
	Ethylene Oxide Sterilizable
	Good Processability
	High ESCR (Stress Crack Resist.)
	High Stiffness
	Low Extractables
	Radiation Sterilizable
	Recyclable Material
	Steam Sterilizable
Uses	Bottles
	Containers
	Medical/Healthcare Applications
	Pharmaceutical Packaging
Processing Method	Blow Molding
	Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.30	g/10 min	
190°C/21.6 kg	28	g/10 min	
190°C/5.0 kg	1.3	g/10 min	
Environmental Stress-Cracking Resistance (10% Antarox, F50)	100	hr	ASTM D1693A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	63		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1300	MPa	ISO 527-2/1
Tensile Stress (Yield)	29.0	MPa	ISO 527-2/50

Tensile Strain (Yield)	8.0	%	ISO 527-2/50
Flexural Modulus [1]	1400	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	80.0	°C	ISO 75-2/B
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	170 to 190	°C	
Cylinder Zone 2 Temp.	170 to 190	°C	
Cylinder Zone 3 Temp.	170 to 190	°C	
Cylinder Zone 4 Temp.	170 to 190	°C	
Cylinder Zone 5 Temp.	170 to 190	°C	
Melt Temperature	170 to 200	°C	
Die Temperature	175 to 190	°C	
NOTE			
1.	2.0 mm/min		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT