Bormed™ HE7541-PH

High Density Polyethylene

Borealis AG

Message:

Bormed HE7541-PH is a resin intended for evaluation for use in Healthcare applications.
Bormed HE7541-PH is a bimodal high-density polyethylene typically used in articles produced via injection moulding. This grade combines high environmental stress crack resistance and easy processing. Material can be sterilised with ethylene oxide, steam and radiation up to 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.) Radiation Sterilizable Recyclable Material Steam Sterilizable		
Uses	Caps Closures Containers Medical/Healthcare Applications Pharmaceutical Packaging		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.954	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 2.0	%	
Environmental Stress-Cracking Resistance (10% Antarox, F50)	40.0	hr	ASTM D1693A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	61		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	850	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	22.0	MPa	ISO 527-2/50
Tensile Strain (Yield, Injection Molded)	10	%	ISO 527-2/50
Flexural Modulus	950	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength (23°C)	80.0	kJ/m²	ISO 8256/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**

Heat Deflection Temperature [1] (0.45 MPa, Unannealed)	65.0	°C	ISO 75-2/B

Injection	Nominal Value	Unit
Processing (Melt) Temp	190 to 250	°C
Mold Temperature	10.0 to 40.0	°C
Injection Rate	Fast	

NOTE	
1.	Injection Molded

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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