Bormed™ HE9621-PH

High Density Polyethylene

Borealis AG

Message:

Bormed HE9621-PH is a resin intended for evaluation for use in Healthcare applications.
Bormed HE9621-PH is a high density polyethylene with narrow molecular weight distribution typically used in injection moulding of articles requiring medium flow with high rigidity. This grade is designed for articles which require high stiffness and low warpage. 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	Low warpage		
	Radiation disinfection		
	Rigidity, high		
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	Ethylene oxide disinfection		
	Recyclable materials		
	Medium liquidity		
	Disinfect with steam		
	Narrow molecular weight distribution		
Uses	Shield		
	Subcutaneous syringe parts		
	Shell		
	Drug packaging		
	Medical/nursing supplies		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.962	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage	1.0 - 2.0	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	62		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	1150	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	26.0	MPa	ISO 527-2/50
Tensile Strain (Yield, Injection Molded)	9.0	%	ISO 527-2/50
Flexural Modulus	1300	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	4.0	kJ/m²	ISO 179/1eA

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature [1] (0.45 MPa, Unannealed)	73.0	°C	ISO 75-2/B
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	200 - 260	°C	
Mold Temperature	10.0 - 40.0	°C	
Injection Rate	Fast		
Injection instructions			
Holding pressure: as low as possible			
NOTE			
1.	Injection Molded		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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