

Borealis Bormed™ HE7541-PH HDPE for Healthcare Applications

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

Bormed HE7541-PH is a bimodal, natural, high-density polyethylene produced by the Borstar PE technology. Bormed HE7541-PH combines low volatiles with high Environmental Stress Crack Resistance (ESCR) and superior flow properties as well as good impact strength and toughness even at low temperatures. Bormed HE7541-PH is recommended for injection molding of caps and closures, pharmaceutical and diagnostic packaging, and IBM containers. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Bormed-HE7541-PH-HDPE-for-Healthcare-Applications.php

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	ISO 1183
ESCR 10% Igepal®	>= 40 hour	>= 40 hour	ASTM D1693
Linear Mold Shrinkage	0.020 cm/cm	0.020 in/in	
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 190 °C	4.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ISO 868
Tensile Strength, Yield	22.0 MPa	3190 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	10 %	10 %	At 50 mm/min; ISO 527-2
Tensile Modulus	0.850 GPa	123 ksi	At 1 mm/min; ISO 527-2
Tensile Impact Strength	80.0 kJ/m ²	38.1 ft-lb/in ²	ISO 8256/A1

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	65.0 °C	149 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 250 °C	374 - 482 °F	
Mold Temperature	10.0 - 40.0 °C	50.0 - 104 °F	

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