

## Borealis Bormed™ HE2581-PH HDPE for Healthcare Applications

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

### Material Notes:

Bormed HE2581-PH is a high-density polyethylene intended for blow molding of products with high stiffness and very good environmental stress crack resistance (ESCR). Bormed HE2581-PH can as well be used to produce products via IBM or ISBM. Bormed HE2581-PH is recommended for bottles and containers up to 10 liters. Bormed HE2581-PH is designed for Pharmaceutical and diagnostic packaging, packaging for dialyze liquid, and containers for fine chemicals. Information provided by the Manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Bormed-HE2581-PH-HDPE-for-Healthcare-Applications.php](http://www.lookpolymers.com/polymer_Borealis-Bormed-HE2581-PH-HDPE-for-Healthcare-Applications.php)

Physical Properties	Metric	English	Comments
Density	0.958 g/cc	0.0346 lb/in <sup>3</sup>	ISO 1183
ESCR 10% Igepal®	>= 100 hour	>= 100 hour	ASTM D1693
Melt Flow	0.30 g/10 min	0.30 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	1.3 g/10 min	1.3 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
High Load Melt Index	28 g/10 min	28 g/10 min	ISO 1133
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ISO 868
Tensile Strength, Yield	29.0 MPa	4210 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	8.0 %	8.0 %	At 50 mm/min; ISO 527-2
Tensile Modulus	1.30 GPa	189 ksi	At 1 mm/min; ISO 527-2
Flexural Modulus	1.40 GPa	203 ksi	At 1 mm/min; ISO 178

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	ISO 75-2

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