

Borealis Borstar® BB2581 HDPE for Blow Molding

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

Material Notes:

Borstar BB2581 is a high-density polyethylene intended for blow molding of products with high stiffness and very good environmental stress crack resistance (ESCR). Borstar BB2581 is recommended for household and industrial chemicals such as detergents, cleaners, and motor oils while being recommended for bottles and containers up to 10 liters. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borstar-BB2581-HDPE-for-Blow-Molding.php

Physical Properties	Metric	English	Comments
Density	0.958 g/cc	0.0346 lb/in ³	ISO 1183
ESCR 10% Igepal®	>= 100 hour	>= 100 hour	ASTM D1693
Melt Flow	0.40 g/10 min	0.40 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
High Load Melt Index	1.8 g/10 min	1.8 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	66	66	ISO 868
Tensile Strength, Yield	30.00 MPa	4351 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	1.35 GPa	196 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

Processing Properties	Metric	English	Comments
Front Barrel Temperature	170 - 190 °C	338 - 374 °F	

Die Temperature Processing Properties	175 - 190 °C Metric	347 - 374 °F English	Comments
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