

Borealis BS2541 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

BS2541 is a high density polyethylene with very high ESCR This product is intended for blow molding. Applications: household and chemical containers such as detergents, cleaners, and motor oils, and industrial chemical bottles and containers up to 10 liters. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BS2541-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	ISO 1183
Environmental Stress Crack Resistance	500 hour	500 hour	Antarox 10%, F50; ASTM D1693-A
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	
	1.5 g/10 min	1.5 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	32 g/10 min	32 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	64	64	ISO 868
Tensile Strength, Yield	25.0 MPa	3630 psi	50mm/min; ISO 527-2
Elongation at Yield	9.0 %	9.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.10 GPa	160 ksi	1mm/min; ISO 527-2
Flexural Modulus	1.20 GPa	174 ksi	1mm/min; ISO 178

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	75.0 °C	167 °F	ISO 75-2

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

Processing Properties	Metric ^{175 - 190 °C}	English ^{347 - 374 °F}	Comments
Melt Temperature	170 - 200 °C	338 - 392 °F	

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