

Borealis BL0521 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), UHMW PE Ultra High Molecular Weight

Material Notes:

BL0521 is a high molecular weight (HMW), high density polyethylene. The main properties are: good impact resistance, high stiffness, very good stress crack resistance. Applications: cans and drums from 5 liters and upwards, and containers intended for transport of dangerous goods according to UN regulations. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BL0521-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ISO 1183
Environmental Stress Crack Resistance	>= 300 hour	>= 300 hour	Antarox 10%; ASTM D1693-A
Melt Flow	2.5 g/10 min @Load 21.6 kg, Temperature 190 °C	2.5 g/10 min @Load 47.6 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	ISO 868
Tensile Strength, Yield	26.0 MPa	3770 psi	50mm/min; ISO 527-2
Elongation at Yield	10 %	10 %	50mm/min; ISO 527-2
Tensile Modulus	1.10 GPa	160 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	3.00 J/cm ² @Temperature -20.0 °C	14.3 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA
	3.50 J/cm ² @Temperature 23.0 °C	16.7 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

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	190 - 220 °C	374 - 428 °F	
Die Temperature	180 - 220 °C	356 - 428 °F	
Melt Temperature	180 - 220 °C	356 - 428 °F	

Processing Properties	Metric	English	Comments
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