

Borealis BL2631 High Density Polyethylene

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

Material Notes:

BL2631 is a high density polyethylene homopolymer intended for blow molding of products requiring high toughness and stiffness.

Applications: fresh milk bottles, and juice bottles. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BL2631-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.963 g/cc	0.0348 lb/in ³	ISO 1183
Environmental Stress Crack Resistance	10 hour	10 hour	Antarox 10%, F50; ASTM D1693-A
Melt Flow	0.50 g/10 min	0.50 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	2.2 g/10 min	2.2 g/10 min	
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	ISO 1133
	44 g/10 min	44 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	68	68	ISO 868
Tensile Strength, Yield	32.0 MPa	4640 psi	50mm/min; ISO 527-2
Elongation at Yield	8.0 %	8.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.50 GPa	218 ksi	1mm/min; ISO 527-2
Flexural Modulus	1.60 GPa	232 ksi	1mm/min; ISO 178

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	89.0 °C	192 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	180 - 220 °C	356 - 428 °F	
Die Temperature	180 - 220 °C	356 - 428 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	180 ~ 220 °C	330 ~ 428 °F	

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