

Borealis BS4641 High Density Polyethylene

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

Material Notes:

BS4641 is a bimodal high-density polyethylene homopolymer. Because of its excellent organoleptic properties, this grade is especially suitable for blow molding of bottles for food applications. 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-BS4641-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.965 g/cc	0.0349 lb/in ³	ISO 1183
Environmental Stress Crack Resistance	15 hour	15 hour	Antarox 10%, F50; ASTM D1693-A
Melt Flow	0.70 g/10 min	0.70 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	60 g/10 min	60 g/10 min	ISO 1133
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	32.0 MPa	4640 psi	50mm/min; ISO 527-2
Elongation at Yield	7.0 %	7.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.55 GPa	225 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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

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