

Borealis FS1470 High Density Polyethylene

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

Material Notes:

FS1470 is a high density polyethylene film grade which combine excellent extrusion behavior with superior mechanical properties. Films made of FS1470 have high impact and tensile strength, and balanced tear properties. Applications: heavy-duty sacks, refuse sacks and liners, and carrier-bag film. FS1470 contains antioxidant. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-FS1470-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.947 g/cc	0.0342 lb/in ³	ISO 1183
Melt Flow	0.20 g/10 min	0.20 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	6.0 g/10 min	6.0 g/10 min	ISO 1133
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	250 %	250 %	ISO 527-3
Film Elongation at Break, TD	300 %	300 %	ISO 527-3
Tensile Modulus	1.00 GPa	145 ksi	MD; ASTM D882-A
	1.10 GPa	160 ksi	TD; ASTM D882-A
Puncture Energy	1.50 J	1.11 ft-lb	45N; ASTM D5748
Dart Drop Test	350 g	0.772 lb	ISO 7765-1
Film Tensile Strength at Break, MD	50.0 MPa	7250 psi	ISO 527-3
Film Tensile Strength at Break, TD	55.0 MPa	7980 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	130 °C	266 °F	ISO 11357-3
Vicat Softening Point	124 °C	255 °F	ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 230 °C	410 - 446 °F	

Processing Properties

Metric

English

Comments

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