

Borealis FS1560 High Density Polyethylene

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

Material Notes:

FS1560 is a high density polyethylene film grade which combine excellent extrusion behavior with superior mechanical properties. Films made of FS1560 have high impact and tensile strength, and balanced tear properties. Applications FS1560 has been developed especially for applications like: heavy-duty sacks, refuse sacks and liners, and carrier-bag film. FS1560 contains antioxidant. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-FS1560-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.956 g/cc	0.0345 lb/in ³	ISO 1183
Melt Flow	0.30 g/10 min	0.30 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	9.0 g/10 min	9.0 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
Elmendorf Tear Strength MD	20.387 g	20.387 g	ISO 6383/2
Elmendorf Tear Strength TD	30.58 g	30.58 g	ISO 6383/2
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	133 °C	271 °F	ISO 11357-3

Vicat Softening Point Thermal Properties	127 °C Metric	261 °F English	ISO 306 Comments
Processing Properties	Metric	English	Comments
Melt Temperature	210 - 230 °C	410 - 446 °F	

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