

SABIC FI1157 Bimodal High Density Polyethylene for Blown Film

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

Material Notes:

Product Description: FI1157 is a high molecular weight high density polyethylene copolymer grade specifically designed for blown film applications. Its high molecular weight, broad molecular weight distribution and high density combine successfully to give excellent extrudability with high film strength and rigidity. The grade is designed specifically to produce thin films with good stiffness. Typical

Applications: FI1157 is recommended for blown film extrusion. It can be used for producing grocery sacks, shopping bags, refuse bags, thin films for bag on roll, wrapping film and also for replacement of thin paper products. Films produced with this product can be readily treated and printed to give high quality graphics. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-FI1157-Bimodal-High-Density-Polyethylene-for-Blown-Film.php

Physical Properties	Metric	English	Comments
Density	0.957 g/cc	0.0346 lb/in ³	ISO 1183
Thickness	20.0 microns	0.787 mil	
Melt Flow	0.35 g/10 min	0.35 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	11 g/10 min	11 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	62	62	ISO 868
Film Tensile Strength at Yield, MD	50.0 MPa	7250 psi	ISO 527
Film Tensile Strength at Yield, TD	45.0 MPa	6530 psi	ISO 527
Film Elongation at Break, MD	400 %	400 %	ISO 527
Film Elongation at Break, TD	450 %	450 %	ISO 527
Elmendorf Tear Strength MD	20 g	20 g	ISO 6383-2
Elmendorf Tear Strength TD	45 g	45 g	ISO 6383-2
Elmendorf Tear Strength, MD	1.00 g/micron	25.4 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	2.25 g/micron	57.1 g/mil	ISO 6383-2
Dart Drop	12.0 g/micron	305 g/mil	F50; ASTM D1709

Dart Drop Test Mechanical Properties	240 g Metric	0.529 lb English	F50· ASTM D1709 Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	75.0 °C	167 °F	ISO 306
Brittleness Temperature	<= -80.0 °C	<= -112 °F	ASTM D746

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 225 °C	392 - 437 °F	
Blow-up Ratio (BUR)	3.0 - 5.0	3.0 - 5.0	

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