

SABIC F00952EQ High Density Polyethylene for Blown Film

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

Material Notes:

Product Description: F00952EQ is a high molecular weight high density polyethylene copolymer grade specifically designed for blown film applications. the design of the product, molecular architecture and density gives a unique combinations of easy extrusion and high melt strength with strong physical properties which makes it suitable for producing very thin films with excellent strength and rigidity. Typical Applications: F00952EQ resin is recommended for blown film extrusion. This product is suggested for the manufacture of high strength grocery sacks, shopping bags and high quality thin films for multi wall sack liners and replacement for thin paper products. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-F00952EQ-High-Density-Polyethylene-for-Blown-Film.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D1505
Thickness	15.0 microns	0.591 mil	
Melt Flow	0.050 g/10 min	0.050 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	0.85 g/10 min	0.85 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	33.0 MPa	4790 psi	ASTM D882
Film Tensile Strength at Yield, TD	40.0 MPa	5800 psi	ASTM D882
Film Elongation at Break, MD	400 %	400 %	ASTM D882
Film Elongation at Break, TD	550 %	550 %	ASTM D882
Elmendorf Tear Strength MD	12 g	12 g	ASTM D1922
Elmendorf Tear Strength TD	60 g	60 g	ASTM D1922
Elmendorf Tear Strength, MD	0.800 g/micron	20.3 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	4.00 g/micron	102 g/mil	ASTM D1922
Dart Drop	12.0 g/micron	305 g/mil	ASTM D1709
Dart Drop Test	180 g	0.397 lb	ASTM D1709

Film Tensile Strength at Break, MD Mechanical Properties	66.0 MPa Metric	9570 psi English	ASTM D882 Comments
Film Tensile Strength at Break, TD	64.0 MPa	9280 psi	ASTM D882
1% Secant Modulus, MD	1250 MPa	181000 psi	ASTM D882
1% Secant Modulus, TD	1500 MPa	218000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	125 °C	257 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 235 °C	392 - 455 °F	
Blow-up Ratio (BUR)	3.0 - 5.0	3.0 - 5.0	

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