

Braskem Green PE SGM9450F Blow Film Extrusion and Cast Film Extrusion High Density Polyethylene

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

Material Notes:

Description: SGM9450F is a high-density polyethylene, developed for the high molecular weight film extrusion segment produced with bimodal technology. The film produced from this resin has high tenacity and excellent resistance to impact characteristics. This resin has wide molar mass distribution that makes it easier to process. The minimum biobased content of this grade is 96%, determined according to ASTM D6866. Application: Bags in general (like T-shirt bags, Handle Bags, Star Bags, others); Geomembranes. Information provided by Braskem.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-Green-PE-SGM9450F-Blow-Film-Extrusion-and-Cast-Film-Extrusion-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.952 g/cc	0.952 g/cc	ASTM D1505/D792
Thickness	12.5 microns	0.492 mil	
Melt Flow	0.33 g/10 min	0.33 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	9.3 g/10 min	9.3 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 Elongation at Break, MD	590 %	590 %	ASTM D882
Film Elongation at Break, TD	740 %	740 %	ASTM D882
Elmendorf Tear Strength MD	58 g	58 g	gF; ASTM D1922
Elmendorf Tear Strength TD	51 g	51 g	gF; ASTM D1922
Dart Drop Test	245 g	0.540 lb	g/F50; ASTM D1709
Film Tensile Strength at Break, MD	85.0 MPa	12300 psi	ASTM D882
Film Tensile Strength at Break, TD	45.0 MPa	6530 psi	ASTM D882
Heat Seal Strength Initiation Temperature	125 °C	257 °F	

Descriptive Properties	Value	Comments
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