ExxonMobil Escorene® HD-7745 HMW-HDPE Blown Film Resin (discontinued **)

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

Material Notes:

Data provided by the manufacturer, Exxon Chemical.A high molecular weight HDPE blown film resin. Films made from HD-7745 exhibit excellent impact and toughness properties as well as high stiffness. HD-7745 is particularly recommended for films 0.5 mil or greater in thickness.Applications: Retail carry-out sacks; Merchandise bags; Institutional can liners; Consumer trash bags. Data for film properties below based on 0.5 mil film.

Order this product through the following link:
http://www.lookpolymers.com/polymer_ExxonMobil-Escorene-HD-7745-HMW-HDPE-Blown-Film-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in³	Exxon Method
Thickness	12.7 microns	0.500 mil	
Melt Flow	0.045 g/10 min	0.045 g/10 min	Exxon Method (I2). HLMI (I21) is 8 g/10 min.

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	37.0 MPa	5370 psi	ASTM D882
Film Tensile Strength at Yield, TD	34.0 MPa	4930 psi	ASTM D882
Film Elongation at Break, MD	290 %	290 %	ASTM D882
Film Elongation at Break, TD	420 %	420 %	ASTM D882
Secant Modulus, MD	1.237 GPa	179.4 ksi	ASTM D882
Secant Modulus, TD	1.312 GPa	190.3 ksi	ASTM D882
Elmendorf Tear Strength, MD	0.433 g/micron	11.0 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	4.72 g/micron	120 g/mil	ASTM D1922
Dart Drop	18.1 g/micron	460 g/mil	F50; ASTM D-1709
Film Tensile Strength at Break, MD	93.0 MPa	13500 psi	ASTM D882
Film Tensile Strength at Break, TD	63.0 MPa	9140 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	129 °C	264 °F	Exxon Method

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