

ExxonMobil Escorene® LL-3001 LLDPE/Hexene Premium Film Resin, Tough, 1.2 mil Film (discontinued **)

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Hexene, Film Grade

Material Notes:

Data provided by the manufacturer, Exxon Chemical. A hexene copolymer LLDPE film resin. Films made from LL-3001 have outstanding tensile and toughness properties. The superior strength properties along with excellent drawability make this a very versatile packaging film resin. It is available with blown film additive formulations with or without slip and antiblock. A heavily stabilized formulation for cast film processing is also available. Applications: Stretch wrap; Stretch film; Frozen food packaging; Ice bags; Shipping sacks; Premium trash bags. Data for film properties below based on 1.2 mil film.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Escorene-LL-3001-LLDPEHexene-Premium-Film-Resin-Tough-12-mil-Film-ndiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.917 g/cc	0.0331 lb/in ³	Exxon Method
Thickness	30.5 microns	1.20 mil	
Melt Flow	1.0 g/10 min	1.0 g/10 min	Exxon Method

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.65 MPa	1400 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.3 MPa	1490 psi	ASTM D882
Film Elongation at Break, MD	660 %	660 %	ASTM D882
Film Elongation at Break, TD	720 %	720 %	ASTM D882
Secant Modulus, MD	0.221 GPa	32.1 ksi	ASTM D882
Secant Modulus, TD	0.234 GPa	33.9 ksi	ASTM D882
Elmendorf Tear Strength MD	430 g	430 g	ASTM D1922
Elmendorf Tear Strength TD	740 g	740 g	ASTM D1922
Elmendorf Tear Strength, MD	14.1 g/micron	358 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	24.3 g/micron	617 g/mil	ASTM D1922
Dart Drop	8.19 g/micron	208 g/mil	F50; ASTM D1709
Dart Drop Test	250 g	0.551 lb	F50; ASTM D-1709
Film Tensile Strength at Break, MD	52.6 MPa	7630 psi	ASTM D882

Film Tensile Strength at Break, TD Mechanical Properties	42.6 MPa Metric	6180 psi English	ASTM D882 Comments
Thermal Properties	Metric	English	Comments
Melting Point	125 °C	257 °F	Exxon Method
Optical Properties	Metric	English	Comments
Haze	16 %	16 %	ASTM D1003
Gloss	50 %	50 %	45°, ASTM D-2457

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