

ExxonMobil Escorene® LL-3003 LLDPE/Hexene Premium Cast Stretch Film Resin (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 cast film resin. Films made from LL-3003 have outstanding tensile properties as well as stiffness and toughness. Applications: Stretch wrap film; Premium packing film. Data for film properties below based on 0.8 mil film.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Escorene-LL-3003-LLDPEHexene-Premium-Cast-Stretch-Film-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.9175 g/cc	0.03315 lb/in ³	Exxon Method
Thickness	20.3 microns	0.800 mil	
Melt Flow	3.2 g/10 min	3.2 g/10 min	Exxon Method

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	8.00 MPa	1160 psi	ASTM D882
Film Tensile Strength at Yield, TD	8.00 MPa	1160 psi	ASTM D882
Film Elongation at Break, MD	430 %	430 %	ASTM D882
Film Elongation at Break, TD	800 %	800 %	ASTM D882
Secant Modulus, MD	0.131 GPa	19.0 ksi	ASTM D882
Secant Modulus, TD	0.159 GPa	23.1 ksi	ASTM D882
Elmendorf Tear Strength MD	180 g	180 g	ASTM D1922
Elmendorf Tear Strength TD	770 g	770 g	ASTM D1922
Elmendorf Tear Strength, MD	8.86 g/micron	225 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	37.9 g/micron	963 g/mil	ASTM D1922
Dart Drop	3.70 g/micron	94.0 g/mil	F50; ASTM D1709
Dart Drop Test	75.0 g	0.165 lb	F50; ASTM D-1709
Film Tensile Strength at Break, MD	61.0 MPa	8850 psi	ASTM D882
Film Tensile Strength at Break, TD	34.0 MPa	4930 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	124 °C	255 °F	Exxon Method

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ASTM D1003
Gloss	96 %	96 %	45°, ASTM D-2457

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