

ExxonMobil Escorene® LL-1042 LLDPE Packaging Film Resin, Clarity (discontinued **)

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

Material Notes:

Data provided by the manufacturer, Exxon Chemical. An LLDPE blown clarity film resin. Films made from LL-1042 have very good tensile properties and toughness in addition to good clarity. The good strength properties combined with the resin's good drawability allows down gauging in many film applications. Applications: Light produce bags; Bread bags; Sandwich 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-1042-LLDPE-Packaging-Film-Resin-Clarity-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 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	9.00 MPa	1310 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D882
Film Elongation at Break, MD	600 %	600 %	ASTM D882
Film Elongation at Break, TD	700 %	700 %	ASTM D882
Secant Modulus, MD	0.183 GPa	26.5 ksi	ASTM D882
Secant Modulus, TD	0.217 GPa	31.5 ksi	ASTM D882
Elmendorf Tear Strength MD	120 g	120 g	ASTM D1922
Elmendorf Tear Strength TD	550 g	550 g	ASTM D1922
Elmendorf Tear Strength, MD	3.94 g/micron	100 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	18.0 g/micron	458 g/mil	ASTM D1922
Dart Drop	2.80 g/micron	71.0 g/mil	F50; ASTM D1709
Dart Drop Test	85.0 g	0.187 lb	F50; ASTM D-1709
Film Tensile Strength at Break, MD	43.0 MPa	6240 psi	ASTM D882
Film Tensile Strength at Break, TD	28.0 MPa	4060 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	125 °C	257 °F	Exxon Method

Optical Properties	Metric	English	Comments
Haze	10 %	10 %	ASTM D1003
Gloss	60 %	60 %	45°, ASTM D-2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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