

ExxonMobil Escorene® LD-103 LDPE Industrial Film Resin (discontinued **)

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

Material Notes:

Data provided by the manufacturer, Exxon Chemical. A homopolymer industrial film resin with excellent toughness. LD-103 has a low melt index which gives excellent impact strength and melt strength over a range of gauges. Applications: Box and drum liners; Industrial packaging; Medium duty shrink wrap; Construction and agriculture film; Rubber bale wrap. Data for film properties below based on 1.25 mil film.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Escorene-LD-103-LDPE-Industrial-Film-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	Exxon Method
Thickness	31.8 microns	1.25 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	17.0 MPa	2470 psi	ASTM D882
Film Tensile Strength at Yield, TD	12.0 MPa	1740 psi	ASTM D882
Film Elongation at Break, MD	500 %	500 %	ASTM D882
Film Elongation at Break, TD	600 %	600 %	ASTM D882
Secant Modulus, MD	0.200 GPa	29.0 ksi	ASTM D882
Secant Modulus, TD	0.220 GPa	31.9 ksi	ASTM D882
Elmendorf Tear Strength MD	100 g	100 g	ASTM D1922
Elmendorf Tear Strength TD	250 g	250 g	ASTM D1922
Elmendorf Tear Strength, MD	3.15 g/micron	80.0 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	7.87 g/micron	200 g/mil	ASTM D1922
Dart Drop	2.36 g/micron	60.0 g/mil	F50; ASTM D1709
Dart Drop Test	75.0 g	0.165 lb	F50; ASTM D-1709
Film Tensile Strength at Break, MD	40.0 MPa	5800 psi	ASTM D882
Film Tensile Strength at Break, TD	18.0 MPa	2610 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	109 °C	228 °F	Exxon Method

Optical Properties	Metric	English	Comments
Haze	15 %	15 %	ASTM D1003
Gloss	40 %	40 %	45°, ASTM D-2457

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