

ExxonMobil Escorene® LD-316 EVA Film Resin, High Clarity, High Impact (discontinued **)

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate Copolymer (EVA), Film Grade

Material Notes:

Data provided by the manufacturer, Exxon Chemical. A 1.9% vinyl acetate copolymer, high clarity film resin. Film made from LD-316 offers improved impact strength and heat sealability versus homopolymer clarity film resins. Applications: Frozen food packaging; Other food packaging (heavy duty produce bags, sandwich bags, freezer bags, etc.); Packaging applications requiring good toughness, good heat sealability, and high clarity; Profile extrusion. 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-316-EVA-Film-Resin-High-Clarity-High-Impact-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.926 g/cc	0.0335 lb/in ³	Exxon Method
Thickness	31.8 microns	1.25 mil	
Melt Flow	2.2 g/10 min	2.2 g/10 min	Exxon Method

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.60 MPa	1390 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.6 MPa	1540 psi	ASTM D882
Film Elongation at Break, MD	150 %	150 %	ASTM D882
Film Elongation at Break, TD	500 %	500 %	ASTM D882
Secant Modulus, MD	0.206 GPa	29.9 ksi	ASTM D882
Secant Modulus, TD	0.263 GPa	38.1 ksi	ASTM D882
Elmendorf Tear Strength MD	410 g	410 g	ASTM D1922
Elmendorf Tear Strength TD	100 g	100 g	ASTM D1922
Elmendorf Tear Strength, MD	12.9 g/micron	328 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	3.15 g/micron	80.0 g/mil	ASTM D1922
Dart Drop	2.52 g/micron	64.0 g/mil	F50; ASTM D1709
Dart Drop Test	80.0 g	0.176 lb	F50; ASTM D-1709
Film Tensile Strength at Break, MD	26.0 MPa	3770 psi	ASTM D882
Film Tensile Strength at Break, TD	20.0 MPa	2900 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	108 °C	226 °F	Exxon Method

Optical Properties	Metric	English	Comments
Haze	5.1 %	5.1 %	ASTM D1003
Gloss	75 %	75 %	45°, ASTM D-2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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