

ExxonMobil Escorene® LD-331 EVA Film Resin, Very High Clarity, Very 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 5.8% vinyl acetate copolymer, high clarity film resin. Film made from this resin exhibits superior impact strength and heat sealability. Applications: Frozen food packaging; Other food packaging such as heavy duty produce bags, rice bags, poultry bags, etc.; Applications requiring excellent toughness and good heat sealability. 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-331-EVA-Film-Resin-Very-High-Clarity-Very-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	2.0 g/10 min	2.0 g/10 min	Exxon Method

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	7.60 MPa	1100 psi	ASTM D882
Film Tensile Strength at Yield, TD	6.90 MPa	1000 psi	ASTM D882
Film Elongation at Break, MD	240 %	240 %	ASTM D882
Film Elongation at Break, TD	670 %	670 %	ASTM D882
Secant Modulus, MD	0.138 GPa	20.0 ksi	ASTM D882
Secant Modulus, TD	0.172 GPa	24.9 ksi	ASTM D882
Impact Test	2.00 J @Temperature 23.0 °C	1.48 ft-lb @Temperature 73.4 °F	Total Energy Impact; ASTM D-4272
Elmendorf Tear Strength MD	260 g	260 g	ASTM D1922
Elmendorf Tear Strength TD	70 g	70 g	ASTM D1922
Elmendorf Tear Strength, MD	8.19 g/micron	208 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	2.20 g/micron	56.0 g/mil	ASTM D1922
Dart Drop	4.25 g/micron	108 g/mil	F50; ASTM D1709
Dart Drop Test	135 g	0.298 lb	F50; ASTM D-1709

Film Tensile Strength at Break, MD Mechanical Properties	34.0 MPa Metric	4930 psi English	ASTM D882 Comments
Film Tensile Strength at Break, TD	22.0 MPa	3190 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	103 °C	217 °F	Exxon Method

Optical Properties	Metric	English	Comments
Haze	3.0 %	3.0 %	ASTM D1003
Gloss	76 %	76 %	45°, ASTM D-2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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