

**ExxonMobil Escorene® LD-144 EVA Film Resin (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 2% vinyl acetate copolymer packaging film resin. Film made from LD-144 offers improved impact strength and heat sealability compared to homopolymer clarity film resins. It can be drawn down to less than 1.0 mil in the blown film process. Applications: Food packaging (bread bags, baked goods, light duty produce bags, etc.); Frozen food packaging; Textile goods packaging; Rack and counter bags where good heat sealability and clarity are required. 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-144-EVA-Film-Resin-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ExxonMobil-Escorene-LD-144-EVA-Film-Resin-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in <sup>3</sup>	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	8.00 MPa	1160 psi	ASTM D882
Film Tensile Strength at Yield, TD	9.00 MPa	1310 psi	ASTM D882
Film Elongation at Break, MD	150 %	150 %	ASTM D882
Film Elongation at Break, TD	490 %	490 %	ASTM D882
Secant Modulus, MD	0.180 GPa	26.1 ksi	ASTM D882
Secant Modulus, TD	0.230 GPa	33.4 ksi	ASTM D882
Elmendorf Tear Strength MD	260 g	260 g	ASTM D1922
Elmendorf Tear Strength TD	80 g	80 g	ASTM D1922
Elmendorf Tear Strength, MD	8.19 g/micron	208 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	2.52 g/micron	64.0 g/mil	ASTM D1922
Dart Drop	3.78 g/micron	96.0 g/mil	F50; ASTM D1709
Dart Drop Test	120 g	0.265 lb	F50; ASTM D-1709
Film Tensile Strength at Break, MD	24.0 MPa	3480 psi	ASTM D882
Film Tensile Strength at Break, TD	19.0 MPa	2760 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	106 °C	223 °F	Exxon Method

Optical Properties	Metric	English	Comments
Haze	8.0 %	8.0 %	ASTM D1003
Gloss	65 %	65 %	45°, ASTM D-2457

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