

ExxonMobil LD 306.38 High Clarity, High Impact Film Resin

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

Material Notes:

LD 306 Series films exhibit superior impact strength and heat sealability. Applications include food packaging and frozen food packaging. Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LD-30638-High-Clarity-High-Impact-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ExxonMobil Method
Vinyl Acetate Content	5.5 %	5.5 %	ExxonMobil Method
Thickness	38.1 microns	1.50 mil	
Melt Flow	2.0 g/10 min	2.0 g/10 min	ExxonMobil Method
Antiblock Level	1000 ppm	1000 ppm	
Slip Level	500 ppm	500 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	7.72 MPa	1120 psi	at 2% offset; ASTM D882
Film Tensile Strength at Yield, TD	7.24 MPa	1050 psi	at 2% offset; ASTM D882
Film Elongation at Break, MD	190 %	190 %	ASTM D882
Film Elongation at Break, TD	590 %	590 %	ASTM D882
Film Elongation at Yield, MD	7.3 %	7.3 %	ASTM D882
Film Elongation at Yield, TD	5.9 %	5.9 %	ASTM D882
Elmendorf Tear Strength MD	160 g	160 g	ASTM D1922
Elmendorf Tear Strength TD	80 g	80 g	ASTM D1922
Elmendorf Tear Strength, MD	4.197 g/micron	106.6 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	2.10 g/micron	53.3 g/mil	ASTM D1922
Dart Drop	4.461 g/micron	113.3 g/mil	ASTM D1709
Dart Drop Test	170 g	0.375 lb	ASTM D1709
Film Tensile Strength at Break, MD	25.1 MPa	3640 psi	ASTM D882
Film Tensile Strength at Break, TD			ASTM D882

Mechanical Properties	23.9 MPa Metric	3470 psi English	Comments
1% Secant Modulus, MD	127 MPa	18400 psi	ASTM D882
1% Secant Modulus, TD	146 MPa	21200 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	102 °C	216 °F	Peak Melting Temperature; ExxonMobil Method
Crystallization Temperature	89.0 °C	192 °F	ExxonMobil Method
Vicat Softening Point	82.8 °C	181 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	4.0 %	4.0 %	ASTM D1003
Gloss	74 %	74 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Descriptive Properties	Value	Comments
Features	Thermal Stabilizer	

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