

ExxonMobil LD 302.56 High Clarity, High Impact Film Resin

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

Material Notes:

LD 302 Series films exhibit superior impact strength, good heat sealability, and good low temperature properties. Typical applications are frozen food packaging or other food packaging. Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LD-30256-High-Clarity-High-Impact-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	ExxonMobil Method
Vinyl Acetate Content	3.5 %	3.5 %	ExxonMobil Method
Thickness	38.1 microns	1.50 mil	
Melt Flow	1.3 g/10 min	1.3 g/10 min	ExxonMobil Method
Antiblock Level	3000 ppm	3000 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	8.27 MPa	1200 psi	at 2% offset; ASTM D882
Film Tensile Strength at Yield, TD	8.14 MPa	1180 psi	at 2% offset; ASTM D882
Film Elongation at Break, MD	190 %	190 %	ASTM D882
Film Elongation at Break, TD	580 %	580 %	ASTM D882
Film Elongation at Yield, MD	6.7 %	6.7 %	ASTM D882
Film Elongation at Yield, TD	5.7 %	5.7 %	ASTM D882
Elmendorf Tear Strength MD	190 g	190 g	ASTM D1922
Elmendorf Tear Strength TD	110 g	110 g	ASTM D1922
Elmendorf Tear Strength, MD	4.984 g/micron	126.6 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	2.89 g/micron	73.3 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	24.2 MPa	3510 psi	ASTM D882
Film Tensile Strength at Break, TD	23.2 MPa	3370 psi	ASTM D882
1% Secant Modulus, MD			ASTM D882

Mechanical Properties	146 MPa Metric	21200 psi English	Comments
1% Secant Modulus, TD	172 MPa	24900 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	105 °C	221 °F	Peak Melting Temperature; ExxonMobil Method
Crystallization Temperature	92.0 °C	198 °F	ExxonMobil Method
Vicat Softening Point	88.3 °C	191 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	6.5 %	6.5 %	ASTM D1003
Gloss	69 %	69 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Descriptive Properties	Value	Comments
Features	Thermal Stabilizer	

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