

ExxonMobil LD 312.23 High Impact Film Resin

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

Material Notes:

LD 312 Series films have superior impact strength, good heat sealability, and good low temperature properties. Applications include frozen and other food packaging. Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LD-31223-High-Impact-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.925 g/cc	0.0334 lb/in ³	ExxonMobil Method
Vinyl Acetate Content	4.6 %	4.6 %	ExxonMobil Method
Thickness	38.1 microns	1.50 mil	
Melt Flow	1.0 g/10 min	1.0 g/10 min	ExxonMobil Method
Antiblock Level	5000 ppm	5000 ppm	
Slip Level	1100 ppm	1100 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	7.93 MPa	1150 psi	at 2% offset; ASTM D882
Film Elongation at Break, MD	180 %	180 %	ASTM D882
Film Elongation at Break, TD	580 %	580 %	ASTM D882
Film Elongation at Yield, MD	6.9 %	6.9 %	ASTM D882
Film Elongation at Yield, TD	5.6 %	5.6 %	ASTM D882
Elmendorf Tear Strength MD	200 g	200 g	ASTM D1922
Elmendorf Tear Strength TD	90 g	90 g	ASTM D1922
Elmendorf Tear Strength, MD	5.248 g/micron	133.3 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	2.36 g/micron	60.0 g/mil	ASTM D1922
Dart Drop	4.984 g/micron	126.6 g/mil	ASTM D1709
Dart Drop Test	190 g	0.419 lb	ASTM D1709
Film Tensile Strength at Break, MD	25.9 MPa	3760 psi	ASTM D882
Film Tensile Strength at Break, TD			ASTM D882

Mechanical Properties	24.7 MPa Metric	3580 psi English	Comments
1% Secant Modulus, MD	146 MPa	21200 psi	ASTM D882
1% Secant Modulus, TD	168 MPa	24400 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	104 °C	220 °F	Peak Melting Temperature; ExxonMobil Method
Crystallization Temperature	91.0 °C	196 °F	ExxonMobil Method
Vicat Softening Point	88.9 °C	192 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	6.4 %	6.4 %	ASTM D1003
Gloss	71 %	71 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Features	Thermal Stabilizer	

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