ExxonMobil LDPE LD 313.NF Low Density Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE

Material Notes:

Product Description: LD 313.NF is a 3 % vinyl acetate copolymer. The vinyl acetate content of this resin provides good heat sealing and good cold temperature toughness when compared to LDPE homopolymers.Availability: Latin America, North America and South America Additive: Antiblock: 2500 ppmSlip: 800 ppm Thermal Stabilizer: YesApplications: Carpet BackingCoextrusion FilmsFoamsForm Fill and Seal PackagingFreezer FilmHigh Clarity FilmLamination Film Information provided by ExxonMobil

Order this product through the following link:
http://www.lookpolymers.com/polymer_ExxonMobil-LDPE-LD-313NF-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.925 g/cc	0.0334 lb/in³	ExxonMobil method
Vinyl Acetate Content	3.0 %	3.0 %	ExxonMobil Method
Melt Flow	2.5 g/10 min @Load 2.16 kg, Temperature 190 °C	2.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Antiblock Level	2500 ppm	2500 ppm	
Slip Level	800 ppm	800 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	8.27 MPa	1200 psi	ASTM D882
Film Tensile Strength at Yield, TD	8.27 MPa	1200 psi	ASTM D882
Film Elongation at Break, MD	170 %	170 %	ASTM D882
Film Elongation at Break, TD	540 %	540 %	ASTM D882
Puncture Energy	0.350 J	0.258 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	200 g	200 g	ASTM D1922
Elmendorf Tear Strength TD	120 g	120 g	ASTM D1922
Dart Drop Test	120 g	0.265 lb	ASTM D1709A
Film Tensile Strength at Break, MD	22.1 MPa	3200 psi	ASTM D882
Film Tensile Strength at Break, TD	19.3 MPa	2800 psi	ASTM D882
1% Secant Modulus, MD	152 MPa	22000 psi	ASTM D882
1% Secant Modulus, TD	179 MPa	26000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	<= 225 °C	<= 437 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	5.3 %	5.3 %	ASTM D1003
Gloss	76 %	76 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	6 lbf	ExxonMobil Method

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