

ExxonMobil LDPE LGA 105 Low Density Polyethylene Resin

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

Material Notes:

Product Description: LGA 105 is a homopolymer, garment film resin with good toughness. It is capable of being draw-down to thin gauges.
Availability: North America
Additive: Antiblock: NoSlip: NoProcessing Aid: NoThermal Stabilizer: NoApplications: Blown FilmCast FilmCompoundingGarment FilmHygiene FilmLaundry FilmInformation provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LDPE-LGA-105-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ExxonMobil method
Melt Flow	6.5 g/10 min	6.5 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	8.96 MPa	1300 psi	ASTM D882
Film Tensile Strength at Yield, TD	8.96 MPa	1300 psi	ASTM D882
Film Elongation at Break, MD	390 %	390 %	ASTM D882
Film Elongation at Break, TD	680 %	680 %	ASTM D882
Puncture Energy	1.24 J	0.917 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	440 g	440 g	ASTM D1922
Elmendorf Tear Strength TD	200 g	200 g	ASTM D1922
Dart Drop Test	80.0 g	0.176 lb	ASTM D1709A
Film Tensile Strength at Break, MD	20.7 MPa	3000 psi	ASTM D882
Film Tensile Strength at Break, TD	17.9 MPa	2600 psi	ASTM D882
1% Secant Modulus, MD	165 MPa	24000 psi	ASTM D882
1% Secant Modulus, TD	200 MPa	29000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	<= 231 °C	<= 448 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	4.3 %	4.3 %	ASTM D1003
Gloss	82 %	82 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	8 lbf	ExxonMobil Method

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