ExxonMobil LLDPE LL 3003.32 Linear Low Density Polyethylene Resin

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

Material Notes:

Product Description: LL 3003 is a hexane copolymer LLDPE film resin. Films made from LL 3003 resins have outstanding tensile properties, as well as stiffness and toughness. These superior strength properties, along with excellent drawability of these resins, make them versatile packaging film resins.Availability: Latin America, North America and South America Additive: Antiblock: NoSlip: NoProcessing Aid: No Thermal Stabilizer: YesApplications: Cast FilmCast Stretch FilmPackaging FilmsInformation provided by ExxonMobil

Order this product through the following link:
http://www.lookpolymers.com/polymer_ExxonMobil-LLDPE-LL-300332-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in³	ExxonMobil method
Melt Flow	3.2 g/10 min @Load 2.16 kg, Temperature 190 °C	3.2 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	6.89 MPa	1000 psi	ASTM D882
Film Tensile Strength at Yield, TD	6.76 MPa	980 psi	ASTM D882
Film Elongation at Break, MD	560 %	560 %	ASTM D882
Film Elongation at Break, TD	830 %	830 %	ASTM D882
Puncture Energy	2.94 J	2.17 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	250 g	250 g	ASTM D1922
Elmendorf Tear Strength TD	570 g	570 g	ASTM D1922
Dart Drop Test	90.0 g	0.198 lb	ASTM D1709A
Film Tensile Strength at Break, MD	58.6 MPa	8500 psi	ASTM D882
Film Tensile Strength at Break, TD	36.5 MPa	5300 psi	ASTM D882
1% Secant Modulus, MD	117 MPa	17000 psi	ASTM D882
1% Secant Modulus, TD	124 MPa	18000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	<= 254 °C	<= 489 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	1.7 %	1.7 %	ASTM D1003
Gloss	91 %	91 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	7 lbf	ExxonMobil Method

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