

ExxonMobil LL 3003.39 Cast Film Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Film Grade

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:** Yes **Applications:** Cast FilmCast Stretch FilmPackaging Films **Information provided by ExxonMobil Chemical**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LL-300339-Cast-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.9180 g/cc	0.03316 lb/in ³	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	530 %	530 %	ASTM D882
Film Elongation at Break, TD	830 %	830 %	ASTM D882
Puncture Energy	2.94 J	2.17 ft-lb	ExxonMobil
Elmendorf Tear Strength, MD	9.84 g/micron	250 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	22.4 g/micron	570 g/mil	ASTM D1922
Dart Drop	3.54 g/micron	90.0 g/mil	ASTM D1709
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	11.7 MPa	1700 psi	ASTM D882
1% Secant Modulus, TD	124 MPa	18000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	122 °C	252 °F	Peak Melting Temperature; ExxonMobil Method

Optical Properties	Metric	English	Comments
Haze	1.7 %	1.7 %	ASTM D1003
Gloss	90 %	90 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Features	Thermal Stabilizer	

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