

ExxonMobil LLDPE LL 3404.48 Linear Low Density Polyethylene Resin

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

Material Notes:

Product Description: LL 3404.48 is a hexane medium density polyethylene cast film grade for applications requiring high strength and high stiffness. Films produced from this resin exhibit good tensile and puncture resistance properties. **Availability:** Latin America, North America and South America **Additive:** Antiblock: NoSlip: NoProcessing Aid: No Thermal Stabilizer: Yes **Applications:** Agricultural FilmCast FilmDiaper BacksheetOverwrap FilmInformation provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LLDPE-LL-340448-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.942 g/cc	0.0340 lb/in ³	ExxonMobil method
Melt Flow	4.3 g/10 min @Load 2.16 kg, Temperature 190 °C	4.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	16.5 MPa	2400 psi	ASTM D882
Film Tensile Strength at Yield, TD	17.2 MPa	2500 psi	ASTM D882
Film Elongation at Break, MD	590 %	590 %	ASTM D882
Film Elongation at Break, TD	830 %	830 %	ASTM D882
Puncture Energy	0.791 J	0.583 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	20 g	20 g	ASTM D1922
Elmendorf Tear Strength TD	170 g	170 g	ASTM D1922
Dart Drop Test	<= 50.0 g	<= 0.110 lb	ASTM D1709A
Film Tensile Strength at Break, MD	50.3 MPa	7300 psi	ASTM D882
Film Tensile Strength at Break, TD	34.5 MPa	5000 psi	ASTM D882
1% Secant Modulus, MD	379 MPa	55000 psi	ASTM D882
1% Secant Modulus, TD	427 MPa	62000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	<= 261 °C	<= 502 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	3.4 %	3.4 %	ASTM D1003
Gloss	82 %	82 %	45°; ASTM D2457

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