

ExxonMobil LD 103.59 Industrial Film Resin

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

Material Notes:

Product Description: LD 103 resins are homopolymer industrial film resins with excellent toughness. LD 103 resins have a low melt index, which provides good impact strength and melt strength over a range of gauges.
Availability: Latin America, North America and South America
Additive: Antiblock: 3000 ppm
Slip: No
Thermal Stabilizer: Yes
Applications: Agricultural Film
Blend Partner: Co-Extrusion Films
Form Fill and Seal Packaging: Freezer Film
Linners: Medium Duty Shrink Film
Rubber Bale Wrap: Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LD-10359-Industrial-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	ExxonMobil Method
Thickness	38.1 microns	1.50 mil	
Melt Flow	1.1 g/10 min @Load 2.16 kg, Temperature 190 °C	1.1 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Antiblock Level	3000 ppm	3000 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.4 MPa	1510 psi	ASTM D882
Film Elongation at Break, MD	150 %	150 %	ASTM D882
Film Elongation at Break, TD	580 %	580 %	ASTM D882
Puncture Energy	1.08 J	0.800 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	340 g	340 g	ASTM D1922
Elmendorf Tear Strength TD	70 g	70 g	ASTM D1922
Dart Drop Test	140 g	0.309 lb	ASTM D1709
Film Tensile Strength at Break, MD	29.0 MPa	4200 psi	ASTM D882
Film Tensile Strength at Break, TD	24.1 MPa	3500 psi	ASTM D882
1% Secant Modulus, MD	200 MPa	29000 psi	ASTM D882
1% Secant Modulus, TD	255 MPa	37000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	107 °C	225 °F	Peak Melting Temperature; ExxonMobil Method

Optical Properties	Metric	English	Comments
Haze	11 %	11 %	ASTM D1003
Gloss	49 %	49 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Features	Thermal Stabilizer	

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