

## ExxonMobil LDPE LD 103.09 Low Density Polyethylene Resin

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

### 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: NoSlip: No Thermal Stabilizer: Yes  
**Applications:** Agricultural FilmBlend PartnerCo-Extrusion FilmsForm Fill and Seal PackagingFreezer FilmLinersMedium Duty Shrink FilmRubber Bale Wrap  
 Information provided by ExxonMobil

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-LDPE-LD-10309-Low-Density-Polyethylene-Resin.php](http://www.lookpolymers.com/polymer_ExxonMobil-LDPE-LD-10309-Low-Density-Polyethylene-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in <sup>3</sup>	ExxonMobil method
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

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.3 MPa	1500 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 D1709A
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	<= 226 °C	<= 439 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	11 %	11 %	ASTM D1003
Gloss	50 %	50 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	10 lbf	ExxonMobil Method

## Contact Songhan Plastic Technology Co.,Ltd.

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