

## ExxonMobil LDPE LD 312.82 Low Density Polyethylene Resin

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

### Material Notes:

**Product Description:** LD 312 resins are 4.6% vinyl acetate copolymers for films with good toughness. The comonomer content and low melt index of those resins help produce films which exhibit superior impact strength, good heat sealability and good low temperature properties.  
**Availability:** Latin America, North America and South America  
**Additive:** Antiblock: 4000 ppm Slip: 800 ppm Thermal Stabilizer: Yes  
**Applications:** Coextrusion Films Foams Form Fill and Seal Packaging Freezer Film Lamination Film Poultry Bag Produce Bags Rice Bags  
 Information provided by ExxonMobil

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-LDPE-LD-31282-Low-Density-Polyethylene-Resin.php](http://www.lookpolymers.com/polymer_ExxonMobil-LDPE-LD-31282-Low-Density-Polyethylene-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.925 g/cc	0.0334 lb/in <sup>3</sup>	ExxonMobil method
Vinyl Acetate Content	4.6 %	4.6 %	ExxonMobil Method
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Antiblock Level	4000 ppm	4000 ppm	
Slip Level	800 ppm	800 ppm	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	170 %	170 %	ASTM D882
Film Elongation at Break, TD	560 %	560 %	ASTM D882
Puncture Energy	0.463 J	0.342 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	190 g	190 g	ASTM D1922
Elmendorf Tear Strength TD	90 g	90 g	ASTM D1922
Dart Drop Test	200 g	0.441 lb	ASTM D1709A
Film Tensile Strength at Break, MD	248 MPa	36000 psi	ASTM D882
Film Tensile Strength at Break, TD	23.4 MPa	3400 psi	ASTM D882
1% Secant Modulus, MD	138 MPa	20000 psi	ASTM D882
1% Secant Modulus, TD	165 MPa	24000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Melting Point	211 °C	211 °F	Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	8.5 %	8.5 %	ASTM D1003
Gloss	66 %	66 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	7 lbf	ExxonMobil Method

## Contact Songhan Plastic Technology Co.,Ltd.

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