

ExxonMobil LDPE LD 637.LI Low Density Polyethylene Resin

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

Material Notes:

Product Description: LD 637.LI is a high melt index LDPE homopolymer intended for injection molding or compounding applications requiring high flow. It is ideal for tamper-evident, tear-to-open closures. It can also be used in compounds and concentrates.Availability: Latin America, North America and South AmericaAdditive: Antiblock: NoSlip: 550 ppmThermal Stabilizer: NoApplications: CapsClosuresCompounding Injection Molding Masterbatch Base ResinViscosity ModifierInformation provided by ExxonMobil

Order this product through the following link:
http://www.lookpolymers.com/polymer_ExxonMobil-LDPE-LD-637LI-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in³	ExxonMobil method
Melt Flow	40 g/10 min @Load 2.16 kg, Temperature 190 °C	40 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Slip Level	550 ppm	550 ppm	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88 @Time 15.0 sec	88 @Time 0.00417 hour	ASTM D2240
Hardness, Shore D	43 @Time 15.0 sec	43 @Time 0.00417 hour	ASTM D2240
Tensile Strength at Break	7.58 MPa	1100 psi	ASTM D638
Tensile Strength, Yield	12.4 MPa	1800 psi	ASTM D638
Elongation at Break	110 %	110 %	ASTM D638
Elongation at Yield	30 %	30 %	ASTM D638
Flexural Modulus, 1% Secant	283 MPa	41000 psi	ASTM D790
Dart Drop, Total Energy	19.0 J @Temperature 22.8 °C	14.0 ft-lb @Temperature 73.0 °F	ASTM D3763
	21.7 J @Temperature 0.000 °C	16.0 ft-lb @Temperature 32.0 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	≤ 221 °C Metric	≤ 430 °F English	Peak Melting Point; ExxonMobil Method Comments
Vicat Softening Point	86.1 °C	187 °F	ASTM D1525

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China