

ExxonMobil™ LDPE LD 637.LI

Low Density Polyethylene Resin

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.

General

Availability ¹	• Latin America	• North America	• South America
Additive	• Antiblock: No	• Slip: 550 ppm	• Thermal Stabilizer: No
Applications	• Caps • Closures	• Compounding • Injection Molding	• Masterbatch Base Resin • Viscosity Modifier
Revision Date	• March 2010		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.922 g/cm ³	0.922 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	40 g/10 min	40 g/10 min	ASTM D1238
Peak Melting Temperature	221 °F	105 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	187 °F	86 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	1800 psi	12 MPa	ASTM D638
Tensile Strength at Break	1100 psi	7.6 MPa	ASTM D638
Elongation at Yield	30 %	30 %	ASTM D638
Elongation at Break	110 %	110 %	ASTM D638
Flexural Modulus - 1% Secant	41000 psi	280 MPa	ASTM D790
Durometer Hardness			ASTM D2240
Shore A, 15 sec	88	88	
Shore D, 15 sec	43	43	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Instrumented Dart Impact			ASTM D3763
32°F (0°C)	16 ft·lb	22 J	
73°F (23°C)	14 ft·lb	19 J	

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

Processing Statement

The test specimens were prepared using ASTM D4703, Procedure C. The value listed as Density, ASTM D1505, was tested in accordance with EMC test methods.

Typical properties: these are not to be construed as specifications.

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ExxonMobil Chemical ExxonMobil™ LDPE LD 637.LI

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Notes

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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