

ExxonMobil™ LDPE LD 637.LI

Low Density Polyethylene Resin

Product Description

ExxonMobil™ LD 637.LI is a high melt index LDPE homopolymer resin 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	
Additive	▪ Antiblock: No	▪ Slip: 550 ppm	▪ Thermal Stabilizer: No
Applications	▪ Caps	▪ Compounding	▪ Masterbatch Base Resin
	▪ Closures	▪ Injection Molding	▪ Viscosity Modifier
Form(s)	▪ Pellets		
Revision Date	▪ 06/17/2020		

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.922 g/cm ³	0.922 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	40 g/10 min	40 g/10 min	ASTM D1238
Peak Melting Temperature	232 °F	111 °C	ExxonMobil Method

Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	183 °F	84.0 °C	ExxonMobil Method

Molded Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	1900 psi	13 MPa	ExxonMobil Method
Tensile Strength at Break	1300 psi	8.8 MPa	ExxonMobil Method
Elongation at Yield	40 %	40 %	ExxonMobil Method
Elongation at Break	72 %	72 %	ExxonMobil Method
Flexural Modulus - 1% Secant	39000 psi	270 MPa	ExxonMobil Method
Durometer Hardness			ExxonMobil Method
Shore A, 15 sec	90	90	
Shore D, 15 sec	47	47	

Impact

	Typical Value (English)	Typical Value (SI)	Test Based On
Instrumented Dart Impact			ExxonMobil Method
-40°F (-40°C)	1.3 ft·lb	1.8 J	
73°F (23°C)	11 ft·lb	16 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

All physical properties were measured on compression molded specimens.

Notes

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

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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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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