Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ LD 40022.LI

Low Density Polyethylene

Product Description

ExxonMobil™ LD 40022.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 ▪ Closures	▪ Compounding ▪ Injection Molding	▪ Masterbatch Base Resin ▪ 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/cm³	0.922	g/cm³	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.

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

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For additional technical, sales and order assistance: Contact Us

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Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene