

Product Datasheet



ExxonMobil™ LDPE LD 521.LN Molding

Low Density Polyethylene Resin

Product Description

ExxonMobil™ LD 521.LN is a low density polyethylene resin that is suitable for use in molding, extrusion, compounding and foam applications.

General

Availability ¹	▪ Latin America	▪ North America	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: No
Applications	▪ Foams	▪ Injection Molding	
Form(s)	▪ Pellets		
Revision Date	▪ 06/17/2020		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.919 g/cm ³	0.919 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.1 g/10 min	2.1 g/10 min	ASTM D1238
Peak Melting Temperature	228 °F	109 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	187 °F	86.0 °C	ExxonMobil Method

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	1700 psi	11 MPa	ExxonMobil Method
Tensile Strength at Break	1500 psi	10 MPa	ExxonMobil Method
Elongation at Yield	20 %	20 %	ExxonMobil Method
Elongation at Break	445 %	445 %	ExxonMobil Method
Flexural Modulus - 1% Secant	30000 psi	210 MPa	ExxonMobil Method
Durometer Hardness			ExxonMobil Method
Shore A, 15 sec	95	95	
Shore D, 15 sec	45	45	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Instrumented Dart Impact			ExxonMobil Method
-40°F (-40°C)	16 ft-lb	22 J	
73°F (23°C)	11 ft-lb	15 J	

Legal Statement

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

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

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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