ExxonMobil™ LDPE LD 516.LN

Low Density Polyethylene Resin

Product Description

ExxonMobil™ LD 516.LN is a medium MI, low density polyethylene resin designed for use in color concentrates and masterbatches. Its flow properties ensure improved processability and uniform dispersion of additives. This resin also offers an outstanding balance of processability and end use performance for injection molding applications.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: No
Applications	▪ Caps ▪ Closures ▪ Compounding	▪ Food Packaging Containers ▪ Houseware Articles ▪ Injection Molding	▪ Masterbatch Base Resin
Form(s)	▪ Pellets		
Revision Date	▪ 06/17/2020		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.919	g/cm³	0.919	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	9.5	g/10 min	9.5	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	185	°F	85.0	°C	ExxonMobil Method

Molded Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield	1700	psi	12	MPa	ExxonMobil Method
Tensile Strength at Break	1200	psi	8.6	MPa	ExxonMobil Method
Elongation at Yield	60	%	60	%	ExxonMobil Method
Elongation at Break	87	%	87	%	ExxonMobil Method
Flexural Modulus - 1% Secant	33000	psi	230	MPa	ExxonMobil Method
Durometer Hardness					ExxonMobil Method
Shore A, 15 sec	94		94		
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)	14	ft·lb	20	J	
73°F (23°C)	12	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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