Product Datasheet

ExxonMobil

ExxonMobil™ LDPE LD 506.07

Low Density Polyethylene Resin

Product Description

ExxonMobil™ LD 506.07 resin is a high flow LDPE homopolymer designed to provide good processability. It is suitable for use in making color concentrates and injection molded articles.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
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	0.921	g/cm³	0.921	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	33	g/10 min	33	g/10 min	ASTM D1238
Peak Melting Temperature	230	°F	110	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	194	°F	90.0	°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	1400	psi	9.6	MPa	ExxonMobil Method
Elongation at Yield	50	%	50	%	ExxonMobil Method
Elongation at Break	94	%	94	%	ExxonMobil Method
Flexural Modulus - 1% Secant	35000	psi	240	MPa	ExxonMobil Method
Durometer Hardness					ExxonMobil Method
Shore A, 15 sec	91		91		
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)	6.3	ft·lb	8.5	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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