ExxonMobil™ LLDPE LL 5100.09

Linear Low Density Polyethylene Resin

Product Description

ExxonMobil™ LL 5100.09 is a linear low density polyethylene resin designed to provide good processability and ease of blending. The granular form of LL 5100.09 makes for efficient blending with pigments, slip additives, and antiblock additives.

General

Availability [1]	▪ Latin America	▪ North America
Additive	▪ Antiblock: No ▪ Slip: No	▪ Processing Aid: No ▪ Thermal Stabilizer: Yes
Applications	▪ Masterbatch Base Resin	
Form(s)	▪ Granules	
Revision Date	▪ 04/01/2019	

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.925	g/cm³	0.925	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	20	g/10 min	20	g/10 min	ASTM D1238
Peak Melting Temperature	250	°F	121	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	189	°F	87	°C	ASTM D1525

Molded Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield	2200	psi	16	MPa	ASTM D638
Tensile Strength at Break	1300	psi	9.2	MPa	ASTM D638
Elongation at Break	60	%	60	%	ASTM D638
Flexural Modulus - 1% Secant	60000	psi	410	MPa	ASTM D790
Durometer Hardness (Shore D, 15 sec)	47		47		ASTM D2240

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	10	ft·lb/in	550	J/m	ASTM D256A

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

1. All physical properties were measured on compression molded specimens. 2. Tensile testing was conducted at a crosshead speed of 20 in/min on Type IV bars. 3. Flexural Modulus testing was conducted at a crosshead speed of 0.05 in/min. 4. Izod Impact Testing was performed at 23°C, Method A, 45° notch.

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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