

Product Datasheet



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 - Processing Aid: No - Slip: No - Thermal Stabilizer: Yes
Applications	Masterbatch Base Resin
Form(s)	Granules
Revision Date	06/11/2020

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.925 g/cm ³	0.925 g/cm ³	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	87.0 °C	ExxonMobil Method

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	2200 psi	16 MPa	ExxonMobil Method
Tensile Strength at Break	1300 psi	9.2 MPa	ExxonMobil Method
Elongation at Break	61 %	61 %	ExxonMobil Method
Flexural Modulus - 1% Secant	60000 psi	410 MPa	ExxonMobil Method
Durometer Hardness (Shore D, 15 sec)	47	47	ExxonMobil Method

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C), Method A)	10 ft-lb/in	550 J/m	ExxonMobil Method

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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