

# 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 <sup>1</sup>	<ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Antiblock: No</li> <li>Processing Aid: No</li> <li>Slip: No</li> <li>Thermal Stabilizer: Yes</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Masterbatch Base Resin</li> </ul>
Form(s)	<ul style="list-style-type: none"> <li>Granules</li> </ul>
Revision Date	<ul style="list-style-type: none"> <li>04/01/2019</li> </ul>

### Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.925 g/cm <sup>3</sup>	0.925 g/cm <sup>3</sup>	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.

<sup>1</sup> 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](http://www.exxonmobilchemical.com/ContactUs)

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