

# ExxonMobil™ LLDPE LL 5002.09

## Linear Low Density Polyethylene Resin

### Product Description

ExxonMobil LL 5002.09 is a linear low density polyethylene resin designed to provide good processability and ease of blending. LL 5002.09 also exhibits good toughness and environmental stress crack resistance.

### 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>Slip: No</li> <li>Processing Aid: 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>03/01/2010</li> </ul>

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.918 g/cm <sup>3</sup>	0.918 g/cm <sup>3</sup>	ExxonMobil Method
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Peak Melting Temperature	252 °F	122 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Brittleness Temperature	< -105 °F	< -76 °C	ASTM D746

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	1700 psi	11 MPa	ASTM D638
Tensile Strength at Break	1900 psi	13 MPa	ASTM D638
Elongation at Break	730 %	730 %	ASTM D638
Flexural Modulus - 1% Secant	40000 psi	270 MPa	ASTM D790
Durometer Hardness (Shore D, 15 sec)	39	39	ASTM D2240

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact	8.9 ft-lb/in	480 J/m	ASTM D256

### Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

### 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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