

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 | <ul style="list-style-type: none"> Latin America North America |
| Additive | <ul style="list-style-type: none"> Antiblock: No Slip: No Processing Aid: No Thermal Stabilizer: Yes |
| Applications | <ul style="list-style-type: none"> Masterbatch Base Resin |
| Form(s) | <ul style="list-style-type: none"> Granules |
| Revision Date | <ul style="list-style-type: none"> 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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