

ExxonMobil™ LDPE LD 521.LN Molding

Low Density Polyethylene Resin

Product Description

ExxonMobil™ LD 521.LN is a low density polyethylene resin that is suitable for use in molding, extrusion, compounding and foam applications.

General

| | | | |
|---------------------------|-----------------|---------------------|--------------------------|
| Availability ¹ | ▪ Latin America | ▪ North America | |
| Additive | ▪ Antiblock: No | ▪ Slip: No | ▪ Thermal Stabilizer: No |
| Applications | ▪ Foams | ▪ Injection Molding | |
| Form(s) | ▪ Pellets | | |
| Revision Date | ▪ 06/17/2020 | | |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.919 g/cm ³ | 0.919 g/cm ³ | ASTM D1505 |
| Melt Index (190°C/2.16 kg) | 2.1 g/10 min | 2.1 g/10 min | ASTM D1238 |
| Peak Melting Temperature | 228 °F | 109 °C | ExxonMobil Method |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|-------------------|
| Vicat Softening Temperature | 187 °F | 86.0 °C | ExxonMobil Method |

| Molded Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|------------------------------|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield | 1700 psi | 11 MPa | ExxonMobil Method |
| Tensile Strength at Break | 1500 psi | 10 MPa | ExxonMobil Method |
| Elongation at Yield | 20 % | 20 % | ExxonMobil Method |
| Elongation at Break | 445 % | 445 % | ExxonMobil Method |
| Flexural Modulus - 1% Secant | 30000 psi | 210 MPa | ExxonMobil Method |
| Durometer Hardness | | | ExxonMobil Method |
| Shore A, 15 sec | 95 | 95 | |
| Shore D, 15 sec | 45 | 45 | |

| Impact | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------------|-------------------------|--------------------|-------------------|
| Instrumented Dart Impact | | | ExxonMobil Method |
| -40°F (-40°C) | 16 ft·lb | 22 J | |
| 73°F (23°C) | 11 ft·lb | 15 J | |

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

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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