

ExxonMobil™ LLDPE LL 1001XV Wire & Cable

Linear Low Density Polyethylene Resin

Product Description

LL 1001XV is a C4 Ziegler Natta LLDPE for power cable and Telecom jacketing. The grade contains a low level of antioxidants and has excellent Environmental Stress Crack Resistance (ESCR). Sufficient Carbon Black or UV stabilizer should be added to meet cable jacketing specifications.

General

| | | | |
|---------------------------|---|---------------------------------|-----------------------------------|
| Availability ¹ | • Africa & Middle East | • Asia Pacific | • Europe |
| Additive | • Antiblock: No | • Slip: No | • Thermal Stabilizer: Yes |
| Applications | • Halogen-free flame retardant (HFFR) compounds | • MV/HV thermoplastic jacketing | • Telecom thermoplastic jacketing |
| Form(s) | • Pellets | | |
| Revision Date | • March 2013 | | |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.918 g/cm ³ | 0.918 g/cm ³ | ExxonMobil Method |
| Melt Index (190°C/2.16 kg) | 1.0 g/10 min | 1.0 g/10 min | ASTM D1238 |
| Peak Melting Temperature | 250 °F | 121 °C | ExxonMobil Method |

| Molded Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield | 1700 psi | 12 MPa | ASTM D638 |
| Tensile Strength at Break | 2800 psi | 19 MPa | ASTM D638 |
| Elongation at Yield | 20 % | 20 % | ASTM D638 |
| Elongation at Break | 830 % | 830 % | ASTM D638 |
| Flexural Modulus - 1% Secant | 39000 psi | 270 MPa | ASTM D790 |
| Durometer Hardness (Shore D, 15 sec) | 49 | 49 | ASTM D2240 |

| Electrical | Typical Value (English) | Typical Value (SI) | Test Based On |
|---------------------|-------------------------|--------------------|---------------|
| Volume Resistivity | 6.6E+15 ohm-cm | 6.6E+15 ohm-cm | ASTM D257 |
| Dielectric Strength | 1300 V/mil | 52 kV/mm | ASTM D149 |
| Dielectric Constant | 2.2 | 2.2 | ASTM D150 |
| Dissipation Factor | 0.0005 | 0.0005 | ASTM D150 |

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

Specimens were compression molded in accordance with ASTM D4703. The value listed as Density, ASTM D1505, was tested in accordance with EMC test methods. Dielectric Strength, ASTM D149, 500V/sec, Compression Molded: 1330 V/mil

Typical properties: these are not to be construed as specifications.

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Notes

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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