

ExxonMobil™ LLDPE LL 4004AZ Wire & Cable

Linear Low Density Polyethylene Resin

Product Description

ExxonMobil™ LL 4004AZ is an ethylene 1-butene Ziegler Natta linear low density polyethylene resin especially designed for Low Voltage power cable insulation using either the one-step or two-step silane cross-linking process. Sufficient antioxidant and Cu inhibitor should be added to meet specific ageing requirements.

General

| | | | |
|---------------------------|--|------------|---------------------------|
| Availability ¹ | ▪ Africa & Middle East | ▪ Europe | |
| Additive | ▪ Antiblock: No | ▪ Slip: No | ▪ Thermal Stabilizer: Yes |
| Applications | <ul style="list-style-type: none"> ▪ Halogen-free flame retardant (HFFR) compounds ▪ LV silane cross-linkable insulation - 1 step process ▪ LV silane cross-linkable insulation - 2-step process ▪ Telecom thermoplastic jacketing | | |
| Form(s) | ▪ Pellets | | |
| Revision Date | ▪ 06/01/2019 | | |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.924 g/cm ³ | 0.924 g/cm ³ | ASTM D1505 |
| Melt Index (190°C/2.16 kg) | 3.5 g/10 min | 3.5 g/10 min | ASTM D1238 |
| Peak Melting Temperature | 255 °F | 124 °C | ExxonMobil Method |

| Molded Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield | 2300 psi | 16 MPa | ASTM D638 |
| Tensile Strength at Break | 1600 psi | 11 MPa | ASTM D638 |
| Elongation at Yield | 10 % | 10 % | ASTM D638 |
| Elongation at Break | 610 % | 610 % | ASTM D638 |
| Flexural Modulus - 1% Secant | 64000 psi | 440 MPa | ASTM D790 |
| Durometer Hardness (Shore D, 15 sec) | 52 | 52 | ASTM D2240 |

| Electrical | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|---------------|
| Volume Resistivity (500 V) | 9.6E+14 ohms·m | 9.6E+14 ohms·m | IEC 62631-3-1 |
| Relative Permittivity (50 Hz) | 2.30 | 2.30 | IEC 62631-2-1 |
| Dissipation Factor (50 Hz) | 2.8E-4 | 2.8E-4 | IEC 62631-2-1 |

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 D 4703, Procedure C.

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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