

ExxonMobil™ LLDPE LL 1002AY Wire & Cable

Linear Low Density Polyethylene Resin

Product Description

LL 1002AY is a C4 Ziegler Natta LLDPE for Low Voltage power cable and Telecom jacketing. The grade contains a higher 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. TnPP is not intentionally added to LL 1002AY resin.

General

Availability ¹	<ul style="list-style-type: none"> Europe Latin America
Additive	<ul style="list-style-type: none"> 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 - 2-step process LV thermoplastic jacketing MV/HV thermoplastic jacketing Telecom thermoplastic jacketing
Form(s)	<ul style="list-style-type: none"> Pellets
Revision Date	<ul style="list-style-type: none"> 06/30/2016

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.918 g/cm ³	0.918 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 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	2500 psi	17 MPa	ASTM D638
Elongation at Yield	20 %	20 %	ASTM D638
Elongation at Break	700 %	700 %	ASTM D638
Flexural Modulus - 1% Secant	44000 psi	300 MPa	ASTM D790
Durometer Hardness (Shore D, 15 sec)	48	48	ASTM D2240

Electrical	Typical Value (English)	Typical Value (SI)	Test Based On
Volume Resistivity	> 1.0E+16 ohms·cm	> 1.0E+16 ohms·cm	ASTM D257
Dielectric Constant (60 Hz)	2.2	2.2	ASTM D150
Dissipation Factor (60 Hz)	< 1E-4	< 1E-4	ASTM D150

Legal Statement

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

Tris(nonylphenol)phosphite (TNPP) CAS# 26523-78-4 is not intentionally used by ExxonMobil in this product. Although this product is not routinely tested for its presence, based on product composition knowledge this substance is not expected to be present. However, the fact that this substance is not intentionally used by ExxonMobil in this product does not exclude that trace levels of this substance may be present as a result of the specific characteristics of the raw materials and/or of the manufacturing process.

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

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: 1400 V/mil

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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