

ExxonMobil™ LLDPE LL 1001AV Wire & Cable

Linear Low Density Polyethylene Resin

Product Description

LL 1001AV 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. TnPP is not intentionally added to LL 1001AV resin.

General

Availability ¹	▪ Africa & Middle East	▪ Europe	▪ Latin America
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Halogen-free flame retardant (HFFR) compounds	▪ MV/HV thermoplastic jacketing	
	▪ LV thermoplastic jacketing	▪ Telecom thermoplastic jacketing	
Form(s)	▪ Pellets		
Revision Date	▪ 06/20/2016		

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.918 g/cm ³	0.918 g/cm ³	ASTM D792
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	3000 psi	21 MPa	ASTM D638
Elongation at Yield	20 %	20 %	ASTM D638
Elongation at Break	820 %	820 %	ASTM D638
Flexural Modulus - 1% Secant	45000 psi	310 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	2.2	2.2	ASTM D150
Dissipation Factor	< 4E-4	< 4E-4	ASTM D150

Legal Statement

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

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.

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

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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