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 • LV thermoplastic jacketing	• 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/cm³	0.918	g/cm³	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.

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.

For additional technical, sales and order assistance:

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