Ex_xonMobil

ExxonMobil™ LLDPE LL 1002YB Wire & Cable

Linear Low Density Polyethylene Resin

Product Description

LL 1002YB 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.

Availability ¹	 Africa & Middle East 	 Europe 	 North America 		
	 Asia Pacific 	 Latin America 			
Additive	Antiblock: No	 Slip: No 	 Thermal Stabilizer: Yes 		
Applications	 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)	 Pellets 				
Revision Date	• 02/01/2014				

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)	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

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: 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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