

ExxonMobil LLDPE LL 4004EL Wire & Cable Linear Low Density Polyethylene Resin (European Grade)

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE

Material Notes:

Product Description: LL 4004EL is a C4 Ziegler Natta LLDPE, especially designed for Low Voltage power cable insulation, using the two-step silane cross-linking process. Sufficient Cu-inhibitor should be added to meet specific ageing requirements for insulation. For jacketing applications, addition of Carbon Black or UV stabilizer is required. Availability: Africa & Middle East, Asia Pacific and Europe Additive:

Antiblock: NoSlip: NoThermal Stabilizer: Yes Applications: Halogen-free flame retardant (HFFR) compoundsLV silane cross-linkable insulation – 1 step processLV silane cross-linkable insulation – 2-step processTelecom thermoplastic jacketingInformation provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LLDPE-LL-4004EL-Wire-Cable-Linear-Low-Density-Polyethylene-Resin-European-Grade.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ExxonMobil method
Melt Flow	3.6 g/10 min @Load 2.16 kg, Temperature 190 °C	3.6 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	51 @Time 15.0 sec	51 @Time 0.00417 hour	ASTM D2240
Tensile Strength at Break	10.3 MPa	1500 psi	ASTM D638
Tensile Strength, Yield	13.8 MPa	2000 psi	ASTM D638
Elongation at Break	540 %	540 %	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Modulus, 1% Secant	338 MPa	49000 psi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	<= 252 °C	<= 486 °F	Peak Melting Point; ExxonMobil method

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+15 ohm-cm	6.00e+15 ohm-cm	ASTM D257
	2.2	2.2	

Dielectric Constant Electrical Properties	Metric @Frequency 60.0 Hz	English @Frequency 60.0 Hz	ASMT D150 Comments
Dielectric Strength	55.1 kV/mm	1400 kV/in	ASTM D149
Dissipation Factor	0.00050 @Frequency 60.0 Hz	0.00050 @Frequency 60.0 Hz	ASMT D150

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