

## ExxonMobil LLDPE LL 1004YB Wire & Cable Linear Low Density Polyethylene Resin (European Grade)

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

### Material Notes:

**Product Description:** LL 1004YB is a C4 Ziegler Natta LLDPE, especially designed for Low Voltage power cable insulation, using the two-step silane cross-linking process. The grade contains a higher level of antioxidants and has excellent Environmental Stress Crack Resistance (ESCR). 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 processInformation provided by ExxonMobil

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-LLDPE-LL-1004YB-Wire-Cable-Linear-Low-Density-Polyethylene-Resin-European-Grade.php](http://www.lookpolymers.com/polymer_ExxonMobil-LLDPE-LL-1004YB-Wire-Cable-Linear-Low-Density-Polyethylene-Resin-European-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in <sup>3</sup>	ExxonMobil method
Melt Flow	2.8 g/10 min @Load 2.16 kg, Temperature 190 °C	2.8 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	48 @Time 15.0 sec	48 @Time 0.00417 hour	ASTM D2240
Tensile Strength at Break	13.1 MPa	1900 psi	ASTM D638
Tensile Strength, Yield	11.7 MPa	1700 psi	ASTM D638
Elongation at Break	710 %	710 %	ASTM D638
Elongation at Yield	20 %	20 %	ASTM D638
Flexural Modulus, 1% Secant	248 MPa	36000 psi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	<= 250 °C	<= 482 °F	Peak Melting Point; ExxonMobil method

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.80e+15 ohm-cm	4.80e+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	51.2 kV/mm	1300 kV/in	ASTM D149
Dissipation Factor	0.00040 @Frequency 60.0 Hz	0.00040 @Frequency 60.0 Hz	ASMT D150

## Contact Songhan Plastic Technology Co.,Ltd.

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