

ExxonMobil LLDPE LL 1002YB Wire & Cable Linear Low Density Polyethylene Resin

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

Material Notes:

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 jacketing specifications. **Availability:** Africa & Middle East, Asia Pacific, Europe, Latin America, North America and South America **Additive:** Antiblock: NoSlip: No Thermal Stabilizer: Yes **Applications:** Halogen-free flame retardant (HFFR) compounds LV silane cross-linkable – 2 step process LV thermoplastic jacketing MV/HV thermoplastic jacketing Telecom thermoplastic jacketing **Information provided by ExxonMobil**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LLDPE-LL-1002YB-Wire-Cable-Linear-Low-Density-Polyethylene-Resin.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------------------------|--------------------------------------|-------------------|
| Density | 0.918 g/cc | 0.0332 lb/in ³ | ExxonMobil method |
| Melt Flow | 2.0 g/10 min | 2.0 g/10 min | ASTM D1238 |
| | @Load 2.16 kg, Temperature 190 °C | @Load 4.76 lb, Temperature 374 °F | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------------|----------------|--------------------|------------|
| Hardness, Shore D | 48 | 48 | ASTM D2240 |
| | @Time 15.0 sec | @Time 0.00417 hour | |
| Tensile Strength at Break | 17.2 MPa | 2500 psi | ASTM D638 |
| Tensile Strength, Yield | 11.7 MPa | 1700 psi | ASTM D638 |
| Elongation at Break | 790 % | 790 % | ASTM D638 |
| Elongation at Yield | 20 % | 20 % | ASTM D638 |
| Flexural Modulus, 1% Secant | 255 MPa | 37000 psi | ASTM D790 |

| Thermal Properties | Metric | English | Comments |
|--------------------|-----------|-----------|---------------------------------------|
| Melting Point | <= 248 °C | <= 478 °F | Peak Melting Point; ExxonMobil method |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 5.00e+15 ohm-cm | 5.00e+15 ohm-cm | ASTM D257 |
| Dielectric Constant | 2.2 | 2.2 | ASTM D150 |

| Electrical Properties | @Frequency 60.0 Hz Metric | @Frequency 60.0 Hz English | Comments |
|-----------------------|------------------------------|-------------------------------|----------------------|
| Dielectric Strength | 55.1 kV/mm | 1400 kV/in | 500 V/sec; ASTM D149 |
| Dissipation Factor | 0.0010 @Frequency 60.0 Hz | 0.0010 @Frequency 60.0 Hz | ASTM D150 |

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