

ExxonMobil LDPE LD 157CW Wire & Cable Low Density Polyethylene Resin

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

Material Notes:

Product Description: LD 157CW is a medium density LDPE recommended for the production of Low Voltage power cable insulation, using the on-step silane crosslinking technology. The grade contains a higher level of antioxidants. Sufficient Cu-inhibitor should be added to meet specific ageing requirements.
Availability: Africa & Middle East and Europe
Additive: Antiblock: NoSlip: NoThermal Stabilizer:
YesApplications: LV silane cross-linkable insulation – 1 step process
Telecom/Data/LAN cable insulation
 Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LDPE-LD-157CW-Wire-Cable-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.931 g/cc	0.0336 lb/in ³	ExxonMobil method
Melt Flow	0.60 g/10 min @Load 2.16 kg, Temperature 190 °C	0.60 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54 @Time 15.0 sec	54 @Time 0.00417 hour	ASTM D2240
Tensile Strength at Break	15.9 MPa	2300 psi	ASTM D638
Tensile Strength, Yield	13.8 MPa	2000 psi	ASTM D638
Elongation at Break	550 %	550 %	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Modulus, 1% Secant	359 MPa	52000 psi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	<= 239 °C	<= 462 °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
Dielectric Constant	2.2	2.2	ASTM D150
Dielectric Strength	59.1 kV/mm	1500 kV/in	ASTM D149

Dielectric Factor
Electrical Properties

0.0010
Metric

0.0010
English

ASTM D150
Comments

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