

ExxonMobil LDPE LD 100BW Low Density Polyethylene Resin (European Grade)

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

Material Notes:

Product Description: LD 100BW is a LDPE containing low antioxidants suitable for the production of LV and MV crosslinked insulation using the 1-step or 2-step silane technology. Through in-house compounding it can be used in Medium Voltage peroxide cross-linkable insulation. Sufficient antioxidant and Cu-inhibitor should be added to meet specific ageing requirements. **Availability:** Europe **Additive:** Thermal Stabilizer: Yes **Applications:** LV silane cross-linkable insulation- 2-step process MV/HV peroxide cross-linked insulation **Information provided by ExxonMobil**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LDPE-LD-100BW-Low-Density-Polyethylene-Resin-European-Grade.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 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	49	49	ASMT D2240
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	11.7 MPa	1700 psi	ASTM D638
Tensile Strength, Yield	11.0 MPa	1600 psi	ASTM D638
Elongation at Break	610 %	610 %	ASTM D638
Elongation at Yield	20 %	20 %	ASTM D638
Flexural Modulus, 1% Secant	221 MPa	32000 psi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	<= 230 °C	<= 446 °F	Peak Melting Point; ExxonMobil method

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.00e+15 ohm-cm	7.00e+15 ohm-cm	ASTM D257
Dielectric Constant	2.2	2.2	STM D150
Dielectric Strength	55.1 kV/mm	1400 kV/in	ASTM D149

Designation Factor Electrical Properties	0.00050 Metric	0.00050 English	STM D150 Comments
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