

ExxonMobil™ LDPE LD 100BW Wire & Cable

Low Density Polyethylene Resin

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 also be used in Medium Voltage peroxide cross-linkable insulation. Sufficient antioxidant and Cu-inhibitor should be added to meet specific ageing requirements.

General

Availability ¹	▪ Asia Pacific	▪ Europe
Additive	▪ Thermal Stabilizer: Yes	
Applications	▪ LV silane cross-linkable insulation - 2-step process ▪ MV/HV peroxide cross-linked insulation	
Form(s)	▪ Pellets	
Revision Date	▪ 01/01/2017	

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.923 g/cm ³	0.923 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Peak Melting Temperature	230 °F	110 °C	ExxonMobil Method

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	1600 psi	11 MPa	ASTM D638
Tensile Strength at Break	1800 psi	13 MPa	ASTM D638
Elongation at Yield	20 %	20 %	ASTM D638
Elongation at Break	490 %	490 %	ASTM D638
Flexural Modulus - 1% Secant	42000 psi	290 MPa	ASTM D790
Durometer Hardness (Shore D, 15 sec)	50	50	ASTM D2240

Electrical	Typical Value (English)	Typical Value (SI)	Test Based On
Volume Resistivity	8.8E+16 ohms-cm	8.8E+16 ohms-cm	ASTM D257
Dielectric Constant	2.2	2.2	ASTM D150
Dissipation Factor	4E-4	4E-4	ASTM D150

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

Processing Statement

Specimens were compression molded in accordance with ASTM D4703. The value listed as Density, ASTM D1505, was tested in accordance with EMC test methods.

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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