

Product Datasheet



ExxonMobil™ LD 2023.BA Wire & Cable

(Legacy name: ExxonMobil™ LDPE LD 101BA Wire & Cable)

Low Density Polyethylene

Product Description

ExxonMobil™ LD 2023.BA Wire & Cable is a non-stabilized LDPE, designed for the production of Medium/High Voltage insulation using the direct peroxide addition. For cleanliness reasons, the material is specially controlled through on-line optical control systems. Sufficient antioxidant should be added to meet specific ageing requirements.

General

Availability ¹	- Africa & Middle East - Asia Pacific - Europe
Additive	- Antiblock: No - Slip: No - Thermal Stabilizer: No
Applications	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	1900 psi	13 MPa	ASTM D638
Elongation at Yield	20 %	20 %	ASTM D638
Elongation at Break	570 %	570 %	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	7.6E+16 ohms-cm	7.6E+16 ohms-cm	ASTM D257
Dielectric Constant	2.2	2.2	ASTM D150
Dissipation Factor	5E-4	5E-4	ASTM D150

Legal Statement

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

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

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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