Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ LD 2023.BA 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/cm³	0.923	g/cm³	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.

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

Product Datasheet

ExxonMobil™ LD 2023.BA Wire & Cable
Low Density Polyethylene

For additional technical, sales and order assistance: Contact Us

©2025 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com