

ExxonMobil™ LLDPE LL 4004AZ Wire & Cable

Linear Low Density Polyethylene Resin

Product Description

ExxonMobil™ LL 4004AZ is an ethylene 1-butene Ziegler Natta linear low density polyethylene resin especially designed for Low Voltage power cable insulation using either the one-step or two-step silane cross-linking process. Sufficient antioxidant and Cu inhibitor should be added to meet specific ageing requirements.

General

Availability ¹	▪ Africa & Middle East	▪ Europe	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	<ul style="list-style-type: none"> ▪ Halogen-free flame retardant (HFFR) compounds ▪ LV silane cross-linkable insulation - 1 step process ▪ LV silane cross-linkable insulation - 2-step process ▪ Telecom thermoplastic jacketing 		
Form(s)	▪ Pellets		
Revision Date	▪ 06/01/2019		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.924 g/cm ³	0.924 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	3.5 g/10 min	3.5 g/10 min	ASTM D1238
Peak Melting Temperature	255 °F	124 °C	ExxonMobil Method

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	2300 psi	16 MPa	ASTM D638
Tensile Strength at Break	1600 psi	11 MPa	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Elongation at Break	610 %	610 %	ASTM D638
Flexural Modulus - 1% Secant	64000 psi	440 MPa	ASTM D790
Durometer Hardness (Shore D, 15 sec)	52	52	ASTM D2240

Electrical	Typical Value (English)	Typical Value (SI)	Test Based On
Volume Resistivity (500 V)	9.6E+14 ohms·m	9.6E+14 ohms·m	IEC 62631-3-1
Relative Permittivity (50 Hz)	2.30	2.30	IEC 62631-2-1
Dissipation Factor (50 Hz)	2.8E-4	2.8E-4	IEC 62631-2-1

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 D 4703, Procedure C.

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.

ExxonMobil™ LLDPE LL 4004AZ Wire & Cable
Linear Low Density Polyethylene Resin

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

©2022 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