

Product Datasheet



# ExxonMobil™ LLDPE LL 6301 Series Wire & Cable

## Linear Low Density Polyethylene Resin

### Product Description

ExxonMobil™ LL 6301 Series are ethylene 1-butene Ziegler Natta linear low density polyethylene resins recommended for various compounding applications.

### General

Availability <sup>1</sup>	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ LL 6301RQ Wire & Cable: Antiblock: No; Slip: No; Thermal Stabilizer: Yes ▪ LL 6301XR Wire & Cable: Antiblock: No; Slip: No; Thermal Stabilizer: Yes		
Applications	▪ Cable compound applications ▪ LV silane cross-linkable insulation - 1 step process ▪ Masterbatch Base Resin		
Form(s)	▪ LL 6301XR Wire & Cable: Pellets	▪ LL 6301RQ Wire & Cable: Powder	
Revision Date	▪ 06/01/2019		

### Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.936 g/cm <sup>3</sup>	0.936 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Peak Melting Temperature	257 °F	125 °C	ExxonMobil Method

### Electrical

	Typical Value (English)	Typical Value (SI)	Test Based On
Volume Resistivity (500 V)	3.8E+14 ohms·m	3.8E+14 ohms·m	IEC 62631-3-1
Relative Permittivity (50 Hz)	2.30	2.30	IEC 62631-2-1
Dissipation Factor (50 Hz)	2.7E-4	2.7E-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 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.

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

Product Datasheet



ExxonMobil™ LLDPE LL 6301 Series Wire & Cable  
Linear Low Density Polyethylene Resin

For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

©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](http://exxonmobilchemical.com)

