ExxonMobil Signature Polymers

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	▪ 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/cm³	0.924	g/cm³	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.

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

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