Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ LD 2022.BW Wire & Cable

Low Density Polyethylene

Product Description

ExxonMobil™ LD 2022.BW is a LDPE containing low antioxidants suitable for the production of LV and MV crosslinked insulation using the 1-step or 2-step silane technology. Through in-house compounding it can also beused in Medium Voltage peroxide cross-linkable insulation. Sufficient antioxidant and Cu-inhibitor should be added to meet specificageing requirements.

General

Availability [1]	▪ Asia Pacific ▪ Europe
Additive	▪ Thermal Stabilizer: Yes
Applications	▪ LV silane cross-linkable insulation - 2-step process ▪ 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	1800	psi	13	MPa	ASTM D638
Elongation at Yield	20	%	20	%	ASTM D638
Elongation at Break	490	%	490	%	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	8.8E+16	ohms·cm	8.8E+16	ohms·cm	ASTM D257
Dielectric Constant	2.2		2.2		ASTM D150
Dissipation Factor	4E-4		4E-4		ASTM D150

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.

[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

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For additional technical, sales and order assistance: Contact Us

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