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

Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ C4LL 1018.AV Wire & Cable

C4 Linear Low Density Polyethylene

Product Description

ExxonMobil™ C4LL 1018.AV is an ethylene 1-butene copolymer resin for power cable and Telecom jacketing. The grade contains a low level of antioxidants and has excellent Environmental Stress Crack Resistance (ESCR). Sufficient Carbon Black or UV stabilizer should be added to meetcable jacketing specifications. TnPP is not intentionally added to C4LL 1018.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Halogen-free flame retardant (HFFR) compounds ▪ LV thermoplastic jacketing	▪ MV/HV thermoplastic jacketing ▪ Telecom thermoplastic jacketing	
Form(s)	▪ Pellets		
Revision Date	▪ 06/20/2016		

Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density / Specific Gravity	0.918	g/cm³	0.918	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	1.0	g/10 min	1.0	g/10 min	ASTM D1238
Peak Melting Temperature	250	°F	121	°C	ExxonMobil Method

Molded Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield	1700	psi	12	MPa	ASTM D638
Tensile Strength at Break	3000	psi	21	MPa	ASTM D638
Elongation at Yield	20	%	20	%	ASTM D638
Elongation at Break	820	%	820	%	ASTM D638
Flexural Modulus - 1% Secant	45000	psi	310	MPa	ASTM D790
Durometer Hardness (Shore D, 15 sec)	48		48		ASTM D2240

Electrical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Volume Resistivity	> 1.0E+16	ohms·cm	> 1.0E+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).

Tris(nonylphenol)phosphite (TNPP) CAS# 26523-78-4 is not intentionally used by ExxonMobil in this product. Although this product is not routinely tested for its presence, based on product composition knowledge this substance is not expected to be present. However, the fact that this substance is not intentionally used by ExxonMobil in this product does not exclude that trace levels of this substance may be present as a result of the specific characteristics of the raw materials and/or of the manufacturing process.

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. Dielectric Strength, ASTM D149, 500V/sec, Compression Molded: 1330 V/mil

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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C4 Linear Low Density Polyethylene

For additional technical, sales and order assistance: Contact Us

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