Product Datasheet

ExxonMobil Signature Polymers

Exceed™ Flow+ m 0938.MC Wire & Cable

Metallocene Polyethylene

Product Description

Exceed™ Flow+ m 0938.MC performance polymer resin is an ethylene 1-hexene copolymer. It can be employed in medium and high density jacketing balancing good processability with mechanical strength, abrasion and environmental stress crack resistance (ESCR). Sufficient carbon black or UV stabilizer should be added to meet cable jacketing specifications.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ North America
Additive	▪ Thermal Stabilizer: Yes	
Applications	▪ Communication Cable ▪ High Voltage Jacketing	▪ Low Voltage Jacketing ▪ Medium Voltage Jacketing
Form(s)	▪ Pellets	
Revision Date	▪ 06/03/2020	

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density / Specific Gravity	0.938	g/cm³	0.938	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	0.90	g/10 min	0.90	g/10 min	ASTM D1238
Peak Melting Temperature	257	°F	125	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	248	°F	120	°C	ExxonMobil Method

Molded Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield 2.0 in/min (50 mm/min)	3000	psi	21	MPa	ExxonMobil Method
Tensile Strength at Break 2.0 in/min (50 mm/min)	5500	psi	38	MPa	ExxonMobil Method
Elongation at Yield (2.0 in/min (51 mm/min))	10	%	10	%	ExxonMobil Method
Elongation at Break [2] (2.0 in/min (50 mm/min))	840	%	840	%	ExxonMobil Method
Flexural Modulus - 1% Secant Procedure A, 0.051 in/min (1.3 mm/min)	93000	psi	640	MPa	ExxonMobil Method
Environmental Stress-Crack Resistance Condition B, 10% Igepal, F50	> 1000	hr	> 1000	hr	ExxonMobil Method
Durometer Hardness (Shore D, 15 sec)	56		56		ExxonMobil Method

Electrical	Typical Value (English)		Typical Value (SI)		Test Based On
Volume Resistivity (500 V)	7.0E+14	ohms·m	7.0E+14	ohms·m	IEC 62631-3-1
Relative Permittivity (1 MHz)	2.31		2.31		IEC 62631-2-1
Dissipation Factor (1 MHz)	1.3E-4		1.3E-4		IEC 62631-2-1

Legal Statement

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.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

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

ExxonMobil

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Processing Statement

All physical properties were measured on compression molded specimens.

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.

[2] Some specimens did not break at the maximum possible elongation during testing. The data recorded for maximum tensile and elongation have been included in the calculation.

For additional technical, sales and order assistance: Contact Us

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