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

Product Datasheet

ExxonMobil Signature Polymers

Exceed™ Tough m 4536.PA Wire & Cable

Metallocene Polyethylene

Product Description

Exceed™ Tough m 4536.PA metallocene polyethylene is an ethylene 1-hexene copolymer. It can be used in medium and high density jacketing with a good balance of processability, mechanical strength, and abrasion resistance. Sufficientcarbon black or UV stabilizer should be added to meet cable jacketing specifications.

General

Availability [1]	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ Thermal Stabilizer: Yes		
Applications	▪ Communication Cable ▪ High Voltage Jacketing	▪ Low Voltage Jacketing ▪ Medium Voltage Jacketing	
Form(s)	▪ Pellets		
Revision Date	▪ 04/01/2019		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density / Specific Gravity	0.936	g/cm³	0.936	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	4.5	g/10 min	4.5	g/10 min	ASTM D1238
Peak Melting Temperature	255	°F	124	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	246	°F	119	°C	ASTM D1525

Molded Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield 2.0 in/min (50 mm/min)	2700	psi	19	MPa	ASTM D638
Tensile Strength at Break 2.0 in/min (50 mm/min)	4400	psi	31	MPa	ASTM D638
Elongation at Yield (2.0 in/min (51 mm/min))	10	%	10	%	ASTM D638
Elongation at Break (2.0 in/min (50 mm/min))	830	%	830	%	ASTM D638
Flexural Modulus - 1% Secant (0.051 in/min (1.3 mm/min))	92000	psi	630	MPa	ASTM D790A
Durometer Hardness (Shore D, 15 sec)	58		58		ASTM D2240

Electrical	Typical Value (English)		Typical Value (SI)		Test Based On
Volume Resistivity (500 V)	1.0E+15	ohms·m	1.0E+15	ohms·m	IEC 62631-3-1
Relative Permittivity (1 MHz)	2.34		2.34		IEC 62631-2-1
Dissipation Factor (1 MHz)	1.2E-4		1.2E-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.

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.

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.

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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