

Enable™ 3505MC Wire & Cable

Performance Polymer

Product Description

Enable™ 3505MC performance polymer resin is an ethylene 1-hexene copolymer. It can be employed in medium and high density jacketing. It has a good balance of mechanical strength, abrasion and strong 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		 Europe 	 North America 	
<u> </u>	Asia Pacific		 Latin America 		
Additive •	Thermal Stabilizer: Y	es			
FF	Communication Cab	le	 Low Voltage Jacketing 		
	High Voltage Jacketi	ing	 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	0.935	g/cm³	0.935	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	0.50	g/10 min	0.50	g/10 min	ASTM D1238
Peak Melting Temperature	254	°F	123	°C	ExxonMobil Method
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	247	_	120		ExxonMobil Method
Molded Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield	,,				ExxonMobil
2.0 in/min (50 mm/min)	2800	psi	19	MPa	Method
Tensile Strength at Break					ExxonMobil
2.0 in/min (50 mm/min)	5700	psi	39	MPa	Method
Elongation at Yield (2.0 in/min (51 mm/min)) 10	%	10	%	ExxonMobil Method
Elongation at Break (2.0 in/min (50 mm/min))	790	%	790	%	ExxonMobil Method
Flexural Modulus - 1% Secant					ExxonMobil
Procedure A, 0.051 in/min (1.3 mm/min)	80000	psi	550	MPa	Method
Environmental Stress-Crack Resistance					ExxonMobil
Condition B, 10% Igepal, F50	> 1000	hr	> 1000	hr	Method
Durometer Hardness (Shore D, 15 sec)	54		54		ExxonMobil Method
Electrical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Volume Resistivity (500 V)	7.5E+14	_	71	ohms∙m	IEC 62631-3-1
Relative Permittivity (1 MHz)	2.28		2.28		IEC 62631-2-1
Dissipation Factor (1 MHz)	1.3E-4		1.3E-4		IEC 62631-2-1

Legai 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).

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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.

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

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