

# Exceed™ 3518PA Wire & Cable

## Performance Polymer

### Product Description

Exceed™ 3518PA performance polymer resin is an ethylene 1-hexene copolymer. It is an excellent blend partner in halogen-free flame retardant compounds and cable jacketing to boost mechanical properties such as tensile strength, elongation, tear and crack resistance. These superior mechanical properties protect the cable in various working conditions. Sufficient carbon black or UV stabilizer should be added to meet cable jacketing specifications.

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>Asia Pacific</li> <li>Europe</li> </ul>	<ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>	
Additive	<ul style="list-style-type: none"> <li>Thermal Stabilizer: Yes</li> </ul>		
Applications	<ul style="list-style-type: none"> <li>Communication Cable</li> <li>Halogen-free flame retardant (HFFR) compounds</li> </ul>	<ul style="list-style-type: none"> <li>High Voltage Jacketing</li> <li>Low Voltage Jacketing</li> </ul>	<ul style="list-style-type: none"> <li>Medium Voltage Jacketing</li> </ul>
Form(s)	<ul style="list-style-type: none"> <li>Pellets</li> </ul>		
Revision Date	<ul style="list-style-type: none"> <li>04/01/2019</li> </ul>		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.918 g/cm <sup>3</sup>	0.918 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	3.5 g/10 min	3.5 g/10 min	ASTM D1238
Peak Melting Temperature	237 °F	114 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	221 °F	105 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield 20 in/min (510 mm/min)	1700 psi	12 MPa	ASTM D638
Tensile Strength at Break 20 in/min (510 mm/min)	4300 psi	30 MPa	ASTM D638
Elongation at Yield (20 in/min (510 mm/min))	10 %	10 %	ASTM D638
Elongation at Break (20 in/min (510 mm/min))	700 %	700 %	ASTM D638
Flexural Modulus - 1% Secant (0.051 in/min (1.3 mm/min))	34000 psi	230 MPa	ASTM D790A
Durometer Hardness (Shore D, 15 sec)	50	50	ASTM D2240

Electrical	Typical Value (English)	Typical Value (SI)	Test Based On
Volume Resistivity (500 V)	1.4E+15 ohms·m	1.4E+15 ohms·m	IEC 62631-3-1
Relative Permittivity (1 MHz)	2.31	2.31	IEC 62631-2-1
Dissipation Factor (1 MHz)	2.3E-4	2.3E-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).

### Processing Statement

Specimens were compression molded in accordance with ASTM D 4703, Procedure C.

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### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> 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](http://www.exxonmobilchemical.com/ContactUs)

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