

## Exceed<sup>™</sup> m 4518.CB Wire & Cable (Legacy name: Exceed<sup>™</sup> 4518CB Wire & Cable) Metallocene Polyethylene

#### **Product Description**

Exceed<sup>™</sup> m 4518.CB 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 balance inherent mechanical strength with good processability. It has superior mechanical properties that protect cables in various working conditions. Sufficient carbon black or UV stabilizer should be added to meet cable jacketing specifications.

General					
Availability <sup>1</sup>	<ul> <li>Latin America</li> </ul>		<ul> <li>North America</li> </ul>		
Additive	<ul> <li>Thermal Stabilizer: Y</li> </ul>	es			
Applications	<ul> <li>Communication Cable</li> <li>High Voltage Jacketing</li> <li>Halogen-free flame retardant</li> <li>Low Voltage Jacketing</li> <li>(HFFR) compounds</li> <li>Medium Voltage Jacketing</li> </ul>			n Voltage Jacketing	
Form(s)	<ul> <li>Pellets</li> </ul>				
Revision Date	• 04/01/2019				
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density / Specific Gravity	0.918	g/cm³		g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)		g/10 min		g/10 min	ASTM D1238
Peak Melting Temperature	235	°F	113	°C	ExxonMobil Method
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	217	°F	103	°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)	4100	psi	29	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))	730	%	730	%	ASTM D638
Flexural Modulus - 1% Secant (0.051 in/min (1.3 mm/min))	33000	psi	230	MPa	ASTM D790A
Durometer Hardness (Shore D, 15 sec)	48		48		ASTM D2240
Electrical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Volume Resistivity (500 V)	6.4E+14	ohms∙m	6.4E+14	ohms∙m	IEC 62631-3-1
Relative Permittivity (1 MHz)	2.28		2.28		IEC 62631-2-1
Dissipation Factor (1 MHz)	1.7E-4		1.7E-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.

#### **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.

<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.

### Exceed™ m 4518.CB Wire & Cable

Metallocene Polyethylene

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

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