

ExceedTM Tough m 3812.CB Wire & Cable (Legacy name: ExceedTM 3812CB Wire & Cable)

(Legacy name: Exceed™ 3812CB Wire & Cable) Metallocene Polyethylene

Product Description

General

Exceed[™] Tough m 3812.CB metallocene polyethylene resin is an ethylene 1-hexene copolymer. It is an excellent blend partner in halogen-free flame retardant compounds and cable jacketing to improve flexibility and mechanical properties. These properties protect the cable in various working conditions and provide potential for higher flame retardant filler loading. Sufficient carbon black or UV stabilizer should be added to meet cable jacketing specifications.

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Additive	 Thermal Stabilizer: Y 	es			
FF	Communication CableHalogen-free flame retardant (HFFR) compounds		High Voltage JacketingLow 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	0.912	g/cm³	0.912	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	3.8	g/10 min	3.8	g/10 min	ASTM D1238
Peak Melting Temperature	232	°F	111	°C	ExxonMobil Method
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based Or
Vicat Softening Temperature	201	°F	94.0	°C	ExxonMobil Method
Molded Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Stress	4300	psi	30	MPa	ExxonMobil Method
Tensile Strength at Yield					ExxonMobil
20 in/min (510 mm/min)	1500	psi	10	MPa	Method
Elongation at Yield (20 in/min (510 mm/min))	80	%	80	%	ExxonMobil Method
Elongation at Break ² (20 in/min (510 mm/min))	> 800	%	> 800	%	ExxonMobil Method
Flexural Modulus - 1% Secant					ExxonMobil
Procedure A, 0.051 in/min (1.3 mm/min)	27000	psi	190	MPa	Method
Durometer Hardness (Shore D, 15 sec)	44		44		ExxonMobil Method
ilectrical	Typical Value	(English)	Typical Value	(SI)	Test Based Or
Volume Resistivity (500 V)	9.4E+14	ohms∙m	9.4E+14	ohms·m	IEC 62631-3-1
Relative Permittivity (1 MHz)	2.27		2.27		IEC 62631-2-1
Dissipation Factor (1 MHz)	2.5E-4		2.5E-4		IEC 62631-2-1

Legal Statement

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

All physical properties were measured on compression molded specimens.



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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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² The specimens did not break. Equipment reached maximum elongation.