

Borealis FR4847

Polyethylene
Borealis AG

Message:

FR4847 is a polyethylene based striping compound for primary automotive wires.
FR4847 is designed and manufactured with advanced material and processing technology to provide enhanced stabilization and lower particulate matter.
This compound was designed to have high compatibility with our chemically crosslinkable non-halogen flame retardant insulation compounds.
FR4847 is intended for use as non-halogen flame retardant polyethylene compound in striping applications for primary automotive wires. It would be used in conjunction with our chemically crosslinkable non-halogen flame retardant insulation compounds.

General Information			
Features	Crosslinkable		
	Flame Retardant		
	Halogen Free		
Uses	Automotive Electronics		
	Wire & Cable Applications		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.40	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	48		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	9.00	MPa	ASTM D412
Tensile Elongation (Break)	280	%	ASTM D412
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	> 22	kV/mm	ASTM D149
Dielectric Constant (23°C, 60 Hz)	3.70		ASTM D150
Dissipation Factor (23°C, 60 Hz)	0.010		ASTM D150
Extrusion	Nominal Value	Unit	
Drying Temperature	55.0	°C	
Drying Time	2.0 to 8.0	hr	
Cylinder Zone 1 Temp.	121	°C	
Cylinder Zone 2 Temp.	121	°C	
Cylinder Zone 3 Temp.	121	°C	
Cylinder Zone 4 Temp.	121	°C	
Cylinder Zone 5 Temp.	121	°C	
Melt Temperature	120 to 125	°C	

NOTE

1. Compound, 23°C

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Recommended distributors for this material

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