

Borealis FR4847 Polyethylene Based Striping Compound

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

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. Application: 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 nonhalogen flame retardant insulation compounds. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-FR4847-Polyethylene-Based-Striping-Compound.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	48	48	ASTM D2240
Tensile Strength at Break	9.00 MPa	1310 psi	ASTM D412
Elongation at Break	280 %	280 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 ohm-cm	1.00e+6 ohm-cm	ASTM D257
Dielectric Constant	3.7	3.7	ASTM D150
	@Frequency 6.00e+7 Hz	@Frequency 6.00e+7 Hz	
Dielectric Strength	>= 22.0 kV/mm	>= 559 kV/in	
Dissipation Factor	0.010	0.010	ASTM D150
	@Frequency 6.00e+7 Hz	@Frequency 6.00e+7 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	55.0 °C	131 °F	drying;2-8h
Middle Barrel Temperature	121 °C	250 °F	
Melt Temperature	120 - 125 °C	248 - 257 °F	
Shelf Life	12.0 Month	12.0 Month	

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