

Borealis FR4837 Chemically Crosslinkable Polyethylene Compound for Primary Automotive Wires

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

FR4837 is a chemically crosslinkable Non-halogen flame retardant Polyethylene compound for Primary Automotive and Appliance Wire.

Applications: FR4837 is intended for use as a 125° C rated primary insulation for crosslinked automotive wire. Specifications: FR4837 in combination meets the applicable requirements when processed using sound extrusion and testing procedure SAE

J1128/J1127. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-FR4837-Chemically-Crosslinkable-Polyethylene-Compound-for-Primary-Automotive-Wires.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	50	50	ASTM D2240
Tensile Strength at Break	12.8 MPa	1860 psi	after aging, 168h, 165°C
	16.0 MPa	2320 psi	ASTM D412
Elongation at Break	220 %	220 %	ASTM D412

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -50.0 °C	<= -58.0 °F	ASTM D2863
Oxygen Index	25 %	25 %	ASTM D2863

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	humidified air drying temperature;2-8h
Middle Barrel Temperature	96.0 °C	205 °F	barrel 1
	110 °C	230 °F	barrel 6
Melt Temperature	120 - 125 °C	248 - 257 °F	
Shelf Life	18.0 Month	18.0 Month	

Descriptive Properties	Value	Comments
Single Vertical Flame Test	Pass	20AWG;ISO 6722/SAE J1128

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