

Borealis FR4845 Irradiation Crosslinkable Polyethylene Compound

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

FR4845 is an Irradiation Crosslinkable non-halogen flame retardant compound developed for the automotive wire market. Applications: FR4845 is intended for use as a 125° C rated primary insulation for crosslinked automotive wire. Specifications: FR4845 in combination meets the applicable requirements as below 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-FR4845-Irradiation-Crosslinkable-Polyethylene-Compound.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	13.8 MPa	2000 psi	ASTM D412
Elongation at Break	180 %	180 %	ASTM D412

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -40.0 °C	<= -40.0 °F	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 @Frequency 6.00e+7 Hz	3.7 @Frequency 6.00e+7 Hz	ASTM D150
Dielectric Strength	>= 21.7 kV/mm	>= 551 kV/in	ASTM D149
Dissipation Factor	0.010 @Frequency 6.00e+7 Hz	0.010 @Frequency 6.00e+7 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Processing Temperature	60.0 °C	140 °F	humidified air drying temperature;2-8h
Middle Barrel Temperature	127 °C	261 °F	barrel 1
	149 °C	300 °F	barrel 6

Melt Temperature Processing Properties	160 - 165 °C Metric	320 - 329 °F English	Comments
Shelf Life	12.0 Month	12.0 Month	

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

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