



# Polyethylene FR4847

Polyethylene Based Striping Compound for Primary Automotive Wires

## Description

**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 non-halogen flame retardant insulation compounds.

## Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density (Compound) (23 °C)	1400 kg/m <sup>3</sup>	ASTM D 792
Tensile Strain at Break	280 %	
Tensile Strength	9 MPa	ASTM D 412
Hardness, Shore D	48	ASTM D 2240

## Electrical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Dielectric constant (60 Hz) <sup>1</sup>	3,7	ASTM D 150
DC Volume Resistivity	10 POhm.cm	ASTM D 257
Dielectric Strength	> 22 kV/mm	
Dissipation Factor (60 Hz) <sup>1</sup>	0,01	ASTM D 150

<sup>1</sup> 23 °C

## Processing Techniques

Please contact your Borealis representative for more details.

The following conditions may be used as a guide when starting up the extruder.

Drying (2 - 8 h)	55 °C
Barrel	121 °C
Max allowed Melt temperature	120 - 125 °C

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## Packaging

Package:           Bulk  
                      Smallbins

## Storage

**FR4847** has a shelf life of 12 months from delivery date if stored in unopened original packages, under dry and clean conditions at temperatures between 10 - 30 °C (50 - 85 °F).

## Disclaimer

**The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.**

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

**Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.**

**It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.**

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

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