

Borealis Casico™ FR6083 Reduced Fire Hazard Jacketing Compound

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Casico™ FR6083 is a thermoplastic, low smoke zero halogen (LSZH) flame retardant, UV stabilized, natural jacketing compound combining with excellent extrusion properties. The composition is based on the elements Carbon, Hydrogen, Oxygen, Silicon and Calcium. Compounds based on these elements will therefore be the only significant constituents of the combustion fumes. Other elements may be present in concentrations less than 0.1%. Applications: jacket for energy cables. The principal feature of this compound is the high physical strength and toughness. It can be used in areas sensitive to smoke or corrosive and toxic combustion products. For most cable constructions, Casico™ FR6083 has sufficient flame retardancy to satisfy single wire vertical burning tests. Specifications: HD 603 S1; EN 50363-8; IEC 60840, Type ST7; IEC 60502, Type ST7; and IEC 60502, Type ST8 Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Casico-FR6083-Reduced-Fire-Hazard-Jacketing-Compound.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1872-2/ISO 1183
Melt Flow	0.60 g/10 min	0.60 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	15s; ISO 868
Tensile Strength at Break	2.25 MPa	326 psi	after aging, 240h, 100°C; or UV aging; IEC 60811-1-2
	15.0 MPa	2180 psi	50mm/min; IEC 60811-1-1
Elongation at Break	75 %	75 %	after aging, 7h, 110°C; IEC 60811-1-2
	500 %	500 %	IEC 60811-1-1

Thermal Properties	Metric	English	Comments
Oxygen Index	28 %	28 %	ISO 4589A

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.80e+6 ohm-cm	1.80e+6 ohm-cm	IEC 60093

Processing Properties	Metric	English	Comments
Zone 1	160 °C	320 °F	
Zone 2			

Processing Properties	170 °C Metric	338 °F English	Comments
Zone 3	180 °C	356 °F	
Zone 4	190 °C	374 °F	
Die Temperature	190 °C	374 °F	

Descriptive Properties	Value	Comments
High Temperature Pressure Test, %	15	110°C, 6h; IEC 60811-3-1
	5	105°C, 6h; IEC 60811-3-1
Single Vertical Flame Test	Pass	IEC 602431

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