

Borealis Casico™ FR6082 Reduced Fire Hazard Jacketing Compound

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Casico™ FR6082 is a thermoplastic, reduced fire hazard, zero halogen black jacketing compound combined with high mechanical strength, toughness and excellent extrusion properties. It is based on the novel technology, Casico™, containing inorganic filler and a novel char-forming additive which confer flame retardancy with very limited smoke generation. Application: 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™ FR6082 has sufficient flame retardancy to satisfy single wire vertical burning tests. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Casico-FR6082-Reduced-Fire-Hazard-Jacketing-Compound.php

Physical Properties	Metric	English	Comments
Density	1.225 g/cc	0.04426 lb/in ³	ISO 1872-2/ISO 1183
Water Absorption	0.065 % @Time 1.21e+6 sec	0.065 % @Time 336 hour	70°C; .8mg/cm ² ; IEC 60811-1-3
Melt Flow	0.25 g/10 min @Load 2.16 kg, Temperature 190 °C	0.25 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	15s; ISO 868
Tensile Strength at Break	>= 2.10 MPa	>= 305 psi	after aging, 7h, 110°C; IEC 60811-1-2
	>= 14.0 MPa	>= 2030 psi	50mm/min; IEC 60811-1-1
Elongation at Break	<= 68 %	<= 68 %	after aging, 7h, 110°C; IEC 60811-1-2
	>= 450 %	>= 450 %	IEC 60811-1-1

Thermal Properties	Metric	English	Comments
Oxygen Index	28 %	28 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.70e+6 ohm-cm	1.70e+6 ohm-cm	IEC 60093
Dielectric Strength	>= 10.0 kV/mm	>= 254 kV/in	IEC 60243

Processing Properties	Metric	English	Comments
Zone 1	160 °C	320 °F	
Zone 2	170 °C	338 °F	
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, %	6	105°C, 6h; IEC 60811-3-1
	8	110°C, 6h; IEC 60811-3-1

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