

Borealis PC0798 Polyethylene Insulation Compound, Crosslinkable

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

PC0798 is a flame retardant crosslinking polyethylene compound for low voltage insulation. PC0798 is a halogenated, colorable, chemically crosslinkable copolymer compound which contains flame retardant additives to reduce normal flame spread characteristics so as to achieve a flame resistant rating when used according to the UL 44 Horizontal test on 14 AWG. Specifications Underwriters Laboratories Standards 44 and 854. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-PC0798-Polyethylene-Insulation-Compound-Crosslinkable.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 11.1 MPa	>= 1610 psi	after aging (168h, 150°C); ASTM D412
	13.1 MPa	1900 psi	ASTM D412
Elongation at Break	400 %	400 %	ASTM D412

Thermal Properties	Metric	English	Comments
Oxygen Index	23 %	23 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 ohm-cm	1.00e+6 ohm-cm	ASTM D257
Dielectric Constant	2.6	2.6	ASTM D150
	@Frequency 60000 Hz	@Frequency 60000 Hz	
Dielectric Strength	>= 550 kV/mm	>= 14000 kV/in	ASTM D149
Dissipation Factor	0.0025	0.0025	ASTM D150
	@Frequency 60000 Hz	@Frequency 60000 Hz	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	116 - 127 °C	241 - 261 °F	
Melt Temperature	127 °C	261 °F	
Back Pressure	1.72 MPa	249 psi	steam pressure

Shelf Life Processing Properties	18.0 Month Metric	18.0 Month English	Comments
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