

Borealis Polycure™ PC780 Flame Retardant Crosslinking Polyethylene Compound for Low Voltage Insulation

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Polycure PC780 is a natural, chemically crosslinking polyethylene compound designed for flame retardant low voltage wire insulation and jacketing. PC780 contains a halogen-based, flame retardant additive package designed to reduce normal PE flame spread characteristics and achieve a VW-1 flame resistant rating on 14 AWG wires and larger. Polycure PC780 is recommended for use in 600 volt power cable and control cable applications. It is also UL approved in applications with oil and gasoline exposure and is suitable for 90°C service in wet conditions. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Polycure-PC780-Flame-Retardant-Crosslinking-Polyethylene-Compound-for-Low-Voltage-Insulation.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 13.28 MPa	>= 1926 psi	Heat Aging (7 days at 121°C); ASTM D412
	14.8 MPa	2140 psi	ASTM D412
Elongation at Break	315 %	315 %	Heat Aging(7 days at 121°C); ASTM D412
	350 %	350 %	ASTM D412

Thermal Properties	Metric	English	Comments
Oxygen Index	27 %	27 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.10e+16 ohm-cm	1.10e+16 ohm-cm	ASTM D257
Dielectric Constant	2.6	2.6	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	>= 33.1 kV/mm	>= 840 kV/in	At 40 mils; ASTM D149
Dissipation Factor	0.00050	0.00050	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	

Processing Properties	Metric	English	Comments
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Front Barrel Temperature Processing Properties	≥ 116 °C Metric	≥ 241 °F English	Comments
Melt Temperature	≥ 121 °C	≥ 250 °F	

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