

Borealis Polycure™ PC531 Track Resistant Crosslinking Polyethylene Compound for Overhead Cable Insulation

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Polycure PC531 is a black, chemically crosslinking polyethylene compound that is designed for use in track resistant overhead cable insulation and jacketing. Polycure PC531 is suitable for use in power cables rated up to 5kV. It also performs suitably in outdoor lighting cable applications such as airport and stadium lighting. PC531 is specifically suited for outdoor installations. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Polycure-PC531-Track-Resistant-Crosslinking-Polyethylene-Compound-for-Overhead-Cable-Insulation.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 17.69 MPa	>= 2565 psi	Heat Aging (7 days at 121°C); ASTM D412
	19.7 MPa	2850 psi	ASTM D412
Elongation at Break	472.5 %	472.5 %	Heat Aging(7 days at 121°C); ASTM D412
	525 %	525 %	ASTM D412

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	2.8	2.8	ASTM D150
Dielectric Strength	>= 33.5 kV/mm	>= 850 kV/in	At 40 mils; ASTM D149
Dissipation Factor	0.0040	0.0040	ASTM D150

Processing Properties	Metric	English	Comments
Front Barrel Temperature	>= 118 °C	>= 244 °F	
Melt Temperature	>= 124 °C	>= 255 °F	

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