

Bulk Molding Compounds BMC 700 Thermoset Polyester, High Arc Quench Electrical Grade

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass Filled BMC

Material Notes:

BMC 700 is a general purpose, mineral filled, glass fiber-reinforced polyester compound that was initially designed for molding arc chutes. It has superior arc quench properties. As with all other BMCI compounds, this Series can be supplied in logs, slugs or bulk. Typical applications are arc chutes and circuit breakers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-700-Thermoset-Polyester-High-Arc-Quench-Electrical-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.90 - 2.00 g/cc	1.90 - 2.00 g/cc	
Water Absorption	0.070 - 0.12 %	0.070 - 0.12 %	24 hours, 23°C
Linear Mold Shrinkage	0.0030 - 0.0055 cm/cm	0.0030 - 0.0055 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	35 - 40	35 - 40	
Tensile Strength, Ultimate	20.7 - 34.5 MPa	3000 - 5000 psi	
Flexural Strength	68.9 - 82.7 MPa	10000 - 12000 psi	
Flexural Modulus	12.4 - 14.5 GPa	1800 - 2100 ksi	
Compressive Strength	96.5 - 124 MPa	14000 - 18000 psi	
Izod Impact, Notched	1.07 - 1.60 J/cm	2.00 - 3.00 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 204 °C	>= 400 °F	
Flammability, UL94	V-0	V-0	5V

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.50e+14 ohm-cm	1.50e+14 ohm-cm	
Dielectric Strength	16.1 kV/mm	410 kV/in	Short Time
Arc Resistance	>= 180 sec	>= 180 sec	
Comparative Tracking Index	>= 500 V	>= 500 V	

Processing Properties	Metric	English	Comments
Mold Temperature	138 - 166 °C	280 - 330 °F	

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