

Bulk Molding Compounds BMC 610 - SP Mineral Filled, Glass Reinforced Polyester Compound, with UV Stabilizer

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

Material Notes:

BMC 610 molding compound is a mineral filled, glass fiber-reinforced polyester compound suitable for compression, transfer and stuffer injection molding. It is set a part form other medium impact electrical grade materials by its very high arc resistance and outstanding flame resistance in thin sections. BMC 610 comes in special colors for research products with UV stabilizer Typical applications include transformer bobbins, terminal boards, arc chutes and contactors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-610-SP-Mineral-Filled-Glass-Reinforced-Polyester-Compound-with-UV-Stabilizer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.88 - 1.92 g/cc	1.88 - 1.92 g/cc	
Water Absorption	0.10 %	0.10 %	24 hours, 23°C
Linear Mold Shrinkage	0.0025 - 0.0045 cm/cm	0.0025 - 0.0045 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	30 - 40	30 - 40	
Tensile Strength, Ultimate	41.4 - 55.2 MPa	6000 - 8000 psi	
Flexural Strength	96.5 - 124 MPa	14000 - 18000 psi	
Compressive Strength	165 - 193 MPa	24000 - 28000 psi	
Izod Impact, Notched	1.07 - 2.14 J/cm	2.00 - 4.00 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	V-0	V-0	
	@Thickness 1.09 mm	@Thickness 0.0430 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.5	5.5	
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	14.2 kV/mm	360 kV/in	Short Time
Dissipation Factor	0.015	0.015	
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	>= 210 sec	>= 210 sec	
Track Resistance	>= 5400 sec	>= 5400 sec	Inclined Plane, 2.5kV
Comparative Tracking Index	>= 600 V	>= 600 V	

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

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