

Bulk Molding Compounds BMC SLC 2000 Glass Reinforced Polyester

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

Material Notes:

BMC SLC 2000 is a medium strength, low-cost, glass reinforced polyester compound with adjustable shrinkage. Ideal for circuit breakers, motor switch housings, fuse holders, brush holders, standoff insulators and conduit boxes. UL® recognized. This material was formerly known as Glastic® SLC 2000.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-SLC-2000-Glass-Reinforced-Polyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.01 - 2.06 g/cc	2.01 - 2.06 g/cc	
Water Absorption	0.070 - 0.12 %	0.070 - 0.12 %	24 hours, 23°C
Linear Mold Shrinkage	0.040 - 0.060 cm/cm	0.040 - 0.060 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	40 - 50	40 - 50	
Tensile Strength, Ultimate	24.1 - 31.0 MPa	3500 - 4500 psi	
Flexural Strength	89.6 - 96.5 MPa	13000 - 14000 psi	
Flexural Modulus	12.8 - 13.6 GPa	1860 - 1970 ksi	
Compressive Strength	138 - 152 MPa	20000 - 22000 psi	
Izod Impact, Notched	2.67 - 3.20 J/cm	5.00 - 6.00 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Strength	10.9 kV/mm	278 kV/in	Short Time
Dissipation Factor	0.015	0.015	Condition D
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.017	0.017	Condition A
	@Frequency 60 Hz	@Frequency 60 Hz	

Electrical Properties	0.019 Metric	0.019 English	Comments
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	185 sec	185 sec	
Track Resistance	>= 16.67 sec	>= 16.67 sec	

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

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