

Glastic BMC SLC-1000 Glass-Reinforced Polyester

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

Material Notes:

Data provided by Glastic Corporation. Medium strength, V-0, adjustable shrinkage.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Glastic-BMC-SLC-1000-Glass-Reinforced-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.98 g/cc	0.0715 lb/in ³	ASTM D792
Water Absorption	0.090 %	0.090 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Modulus	17.0 GPa	2470 ksi	ASTM D638
Flexural Strength	111 MPa	16100 psi	ASTM D790
Flexural Modulus	13.0 GPa	1890 ksi	ASTM D790
Compressive Strength	164 MPa	23800 psi	ASTM D695
Shear Strength	21.0 MPa	3050 psi	ASTM D732
Izod Impact, Notched	2.80 J/cm	5.25 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	130 Â°C	266 Â°F	UL 746B
UL RTI, Mechanical with Impact	130 Â°C	266 Â°F	UL 746B
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Surface Resistance	4.19e+14 ohm	4.19e+14 ohm	Insulation Resistance, Condition A, ASTM D257
Dielectric Constant	4.85	4.85	Condition A, ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Constant	6.58	6.58	Condition A, ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	11.0 kV/mm	279 kV/in	Short-Term; ASTM D149
	0.018	0.018	

Designation Factor Electrical Properties	Metric @Frequency 1e+6 Hz	English @Frequency 1e+6 Hz	Condition A, ASTM D150 Comments
	0.024	0.024	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	199.5 sec	199.5 sec	Condition A, ASTM D495

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