

Bulk Molding Compounds BMC SLC 1000 Glass Reinforced Polyester

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

Material Notes:

BMC SLC 1000 is a medium strength, low-cost, glass reinforced polyester compound with adjustable shrinkage. It is V-0 flame arc and track resistant. UL® recognized. This material was formerly known as Glastic® SLC 1000.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-SLC-1000-Glass-Reinforced-Polyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.95 - 2.01 g/cc	1.95 - 2.01 g/cc	
Water Absorption	0.070 - 0.12 %	0.070 - 0.12 %	24 hours, 23°C
Linear Mold Shrinkage	0.029 cm/cm	0.029 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	40 - 50	40 - 50	
Tensile Strength, Ultimate	27.6 - 34.5 MPa	4000 - 5000 psi	
Flexural Strength	103 - 110 MPa	15000 - 16000 psi	
Flexural Modulus	13.1 - 13.8 GPa	1900 - 2000 ksi	
Compressive Strength	145 - 159 MPa	21000 - 23000 psi	
Izod Impact, Notched	1.60 - 2.67 J/cm	3.00 - 5.00 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	

Electrical Properties	Metric	English	Comments
Dielectric Strength	11.1 kV/mm	282 kV/in	Short Time
Dissipation Factor	0.018	0.018	Condition A
	@Frequency 60 Hz	@Frequency 60 Hz	
Dissipation Factor	0.022	0.022	Condition D
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.024	0.024	

Electrical Properties	Metric	English	Condition A Comments
	0.030 @Frequency 60 Hz	0.030 @Frequency 60 Hz	Condition D
Arc Resistance	199.5 sec	199.5 sec	
Track Resistance	>= 66.67 sec	>= 66.67 sec	

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

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