

Glastic® SLC-1000

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

Glastic® SLC-1000 is a medium strength, and low-cost glass-reinforced polyester compound with adjustable shrinkage. It is V-O flame arc and track resistant. UL® recognized.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	High strength		
	Anti-arc		
	Fast curing		
	Track Resistance		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Home appliance components		
UL File Number	E23525		
Forms	BMC-Block Molding Compound		
Processing Method	Compression molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.98	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.29	%	ASTM D955
Water Absorption (24 hr)	0.090	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	17300	MPa	ASTM D638
Tensile Strength (Yield, Compression Molded)	30.9	MPa	ASTM D638
Flexural Modulus (Compression Molded)	13500	MPa	ASTM D790
Flexural Strength (Compression Molded)	111	MPa	ASTM D790
Compressive Strength	164	MPa	ASTM D695
Shear Strength	21.2	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	280	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746

RTI	130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
	1.5E+14		
Surface Resistivity	4.2E+14	ohms	ASTM D257
Dielectric Strength ¹ (3.18 mm)	11	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
	6.83		
60 Hz	6.58		ASTM D150
	4.85		
1 MHz	4.92		ASTM D150
Dissipation Factor			ASTM D150
	0.030		
60 Hz	0.024		ASTM D150
	0.018		
1 MHz	0.022		ASTM D150
Arc Resistance	200	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Additional Information			
Permittivity, ASTM D150, 60 Hz, Condition A: 6.58Permittivity, ASTM D150, 60 Hz, Condition D: 6.83Permittivity, ASTM D150, 1 MHz, Condition A: 4.85Permittivity, ASTM D150, 1 MHz, Condition D: 4.92Insulation Resistance, ASTM D257, Condition A: 4.19 Ohm x 10e14Insulation Resistance, ASTM D257, Condition C: 1.53 Ohm x 10e14Track Resistance, ASTM D2303: 4000 minutesDissipation Factor, ASTM D150, 60 Hz, Condition A: 0.024Dissipation Factor, ASTM D150, 60 Hz, Condition D: 0.030Dissipation Factor, ASTM D150, 1 MHz, Condition A: 0.018Dissipation Factor, ASTM D150, 1 MHz, Condition D: 0.022			
NOTE			
1.	Method A (short time)		

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