

Glastic® SLC-2000

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

Glastic®SLC-2000 is a thermosetting polyester product. It can be processed by compression molding or injection molding and is available in North America. The main characteristics are: flame retardant/rated flame.

General Information			
UL File Number	E23525		
Appearance	Black		
Forms	BMC-Block Molding Compound		
Processing Method	Compression molding		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.03	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20	%	ASTM D955
Water Absorption (24 hr)	0.090	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14800	MPa	ASTM D638
Tensile Strength (Yield)	27.6	MPa	ASTM D638
Flexural Modulus			ASTM D790
Molding	13600	MPa	ASTM D790
Injection Molding	12800	MPa	ASTM D790
Flexural Strength			ASTM D790
Molding	96.5	MPa	ASTM D790
Injection Molding	93.1	MPa	ASTM D790
Compressive Strength	152	MPa	ASTM D695
Shear Strength	46.3	MPa	ASTM D732

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
Molding	290	J/m	ASTM D256
Injection Molding	150	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
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7.4E+14

Surface Resistivity	1.7E+15	ohms	ASTM D257
Dielectric Strength ¹ (3.18 mm)	11	kV/mm	ASTM D149
Dielectric Constant			ASTM D150

7.07

60 Hz	7.11		ASTM D150
1 MHz	5.24		ASTM D150
Dissipation Factor			ASTM D150

0.015

60 Hz	0.017		ASTM D150
1 MHz	0.019		ASTM D150
Arc Resistance	185	sec	ASTM D495

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94

Additional Information

Permittivity, ASTM D150, 60 Hz, Condition A: 7.11Permittivity, ASTM D150, 60 Hz, Condition D: 7.07Permittivity, ASTM D150, 1 MHz, Condition A: 5.24Insulation Resistance, ASTM D257, Condition A: 17.3 Ohm x 10e14Insulation Resistance, ASTM D257, Condition C: 7.38 Ohm x 10e14Track Resistance, ASTM D2303: 1000 minutesDissipation Factor, ASTM D150, 60 Hz, Condition A: 0.017Dissipation Factor, ASTM D150, 60 Hz, Condition D: 0.015Dissipation Factor, ASTM D150, 1 MHz, Condition A: 0.019Electric Strength, ASTM D149, Parallel, S/S in Oil, Condition A: 50 kvElectric Strength, ASTM D149, Parallel, S/S in Oil, Condition D: 48 kv

NOTE

- Method A (short time)

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