Technical Data Sheet

Glastic SLC-1000

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description
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			
Filler / Reinforcement	• Glass Fiber		
Features	• Arc Resistant • Fast Cure	• High Strength • Tracking Resistant	
Uses	• Appliance Components	• Electrical Parts	• Electrical/Electronic Applications
UL File Number	• E23525		
Forms	• BMC - Bulk Molding Compound		
Processing Method	• Compression Molding	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.98	1.98 g/cm³	ASTM D792
Water Absorption (24 Hr)	0.090 %	0.090 %	ASTM D570
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus (Compression Molded)	2.50E+6 psi	17300 MPa	ASTM D638
Tensile Strength (Yield, Compression Molded)	4490 psi	30.9 MPa	ASTM D638
Flexural Modulus (Compression Molded)	1.96E+6 psi	13500 MPa	ASTM D790
Flexural Strength (Compression Molded)	16100 psi	111 MPa	ASTM D790
Compressive Strength	23800 psi	164 MPa	ASTM D695
Shear Strength	3070 psi	21.2 MPa	ASTM D732
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (Compression Molded)	5.2 ft·lb/in	280 J/m	ASTM D256
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
RTI Elec	266 °F	130 °C	UL 746B
RTI Imp	266 °F	130 °C	UL 746B
RTI Str	266 °F	130 °C	UL 746B
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Surface Resistivity	• 4.2E+14 • 1.5E+14 ohms	• 4.2E+14 • 1.5E+14 ohms	ASTM D257
Dielectric Strength			ASTM D149
0.125 In (3.18 Mm), Method A (short-time)	280 V/mil	11 kV/mm	
Dielectric Constant			ASTM D150
60 Hz	• 6.58 • 6.83	• 6.58 • 6.83	
1 Mhz	• 4.85 • 4.92	• 4.85 • 4.92	
Dissipation Factor			ASTM D150
60 Hz	• 0.024 • 0.030	• 0.024 • 0.030	
1 Mhz	• 0.018 • 0.022	• 0.018 • 0.022	
Arc Resistance	200 sec	200 sec	ASTM D495
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flame Rating (0.06 In (1.6 Mm))	V-0	V-0	UL 94

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Additional Information
Permittivity, ASTM D150, 60 Hz, Condition A: 6.58
Permittivity, ASTM D150, 60 Hz, Condition D: 6.83
Permittivity, ASTM D150, 1 MHz, Condition A: 4.85
Permittivity, ASTM D150, 1 MHz, Condition D: 4.92
Insulation Resistance, ASTM D257, Condition A: 4.19 Ohm x 10e14
Insulation Resistance, ASTM D257, Condition C: 1.53 Ohm x 10e14
Track Resistance, ASTM D2303: 4000 minutes
Dissipation Factor, ASTM D150, 60 Hz, Condition A: 0.024
Dissipation Factor, ASTM D150, 60 Hz, Condition D: 0.030
Dissipation Factor, ASTM D150, 1 MHz, Condition A: 0.018
Dissipation Factor, ASTM D150, 1 MHz, Condition D: 0.022

Notes

These are typical property values not to be construed as specification limits.