

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

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber
Features	• Arc Resistant • High Strength • Fast Cure • 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 ohms • 1.5E+14 ohms	• 4.2E+14 ohms • 1.5E+14 ohms	ASTM D257
Dielectric Strength 0.125 in (3.18 mm), Method A (Short-Time)	280 V/mil	11 kV/mm	ASTM D149
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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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