

Technical Data Sheet

Glastic SLC-2000

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

General			
UL File Number	• E23525		
Appearance	• Black		
Forms	• BMC - Bulk Molding Compound		
Processing Method	• Compression Molding • Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	2.04	2.03 g/cm ³	ASTM D792
Water Absorption (24 Hr)	0.090 %	0.090 %	ASTM D570

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	2.14E+6 psi	14800 MPa	ASTM D638
Tensile Strength (Yield)	4000 psi	27.6 MPa	ASTM D638
Flexural Modulus			ASTM D790
Compression Molded	1.97E+6 psi	13600 MPa	
Injection Molded	1.86E+6 psi	12800 MPa	
Flexural Strength			ASTM D790
Compression Molded	14000 psi	96.5 MPa	
Injection Molded	13500 psi	93.1 MPa	
Compressive Strength	22000 psi	152 MPa	ASTM D695
Shear Strength	6710 psi	46.3 MPa	ASTM D732

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
Compression Molded	5.5 ft·lb/in	290 J/m	
Injection Molded	2.8 ft·lb/in	150 J/m	

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	• 1.7E+15 • 7.4E+14 ohms	• 1.7E+15 • 7.4E+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	• 7.11 • 7.07	• 7.11 • 7.07	
1 Mhz	5.24	5.24	
Dissipation Factor			ASTM D150
60 Hz	• 0.017 • 0.015	• 0.017 • 0.015	
1 Mhz	0.019	0.019	
Arc Resistance	185 sec	185 sec	ASTM D495

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 In (1.6 Mm))	HB	HB	UL 94

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Additional Information

Permittivity, ASTM D150, 60 Hz, Condition A: 7.11
Permittivity, ASTM D150, 60 Hz, Condition D: 7.07
Permittivity, ASTM D150, 1 MHz, Condition A: 5.24
Insulation Resistance, ASTM D257, Condition A: 17.3 Ohm x 10e14
Insulation Resistance, ASTM D257, Condition C: 7.38 Ohm x 10e14
Track Resistance, ASTM D2303: 1000 minutes
Dissipation Factor, ASTM D150, 60 Hz, Condition A: 0.017
Dissipation Factor, ASTM D150, 60 Hz, Condition D: 0.015
Dissipation Factor, ASTM D150, 1 MHz, Condition A: 0.019
Electric Strength, ASTM D149, Parallel, S/S in Oil, Condition A: 50 kv
Electric Strength, ASTM D149, Parallel, S/S in Oil, Condition D: 48 kv

Notes

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