

Technical Data Sheet

**Glastic SLC-2000**

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• North America		
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.

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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