

Glastic® SG-200

Thermoset Polyester

Glastic Corporation

Message:

Glastic SG-200 high-strength and high-temperature laminate offers the same high-performance features and benefits as Glastic's FHT Laminate. In addition, SG-200 offers much higher mechanical strengths than FHT with temperature ratings of up to 210°C.

Glastic SG-200 is also a superior replacement material for epoxy-bonded mica in layer insulation applications.

General Information			
Features	High strength		
	High temperature strength		
	Heat resistance, high		
Uses	Laminate		
	Sheet		
UL File Number	E81928		
Appearance	Natural color		
	brownish yellow		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (1.60 mm)	11700	MPa	ASTM D638
Tensile Strength (yield, 1.60mm)	86.2	MPa	ASTM D638
Flexural Strength (yield, 1.60mm)	200	MPa	ASTM D790
Compressive Strength (1.60 mm)	248	MPa	ASTM D695
Shear Strength	76.5	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (1.60 mm)	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow (1.60 mm)	2.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.25	W/m/K	ASTM C177
RTI Elec (1.60 mm)	210	°C	UL 746
RTI (1.60 mm)	210	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.5E+10	ohms	ASTM D257
Dielectric Strength ¹			ASTM D149
1.60 mm, in Air	20	kV/mm	ASTM D149

1.60 mm, in Oil	25	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1.60 mm, 60 Hz	4.60		ASTM D150
1.60 mm, 1 MHz	3.70		ASTM D150
Dissipation Factor			ASTM D150
1.60 mm, 60 Hz	0.037		ASTM D150
1.60 mm, 1 MHz	0.013		ASTM D150
Arc Resistance (1.60 mm)	120	sec	ASTM D495
Comparative Tracking Index (CTI) (1.60 mm)	500	V	UL 746
High Amp Arc Ignition (HAI) (1.60 mm)	200		UL 746
High Voltage Arc Tracking Rate (HVTR) (1.60 mm)	0.00	mm/min	UL 746
Hot-wire Ignition (HWI)			UL 746
0.711 mm	35	sec	UL 746
1.47 mm	39	sec	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Oxygen Index (1.60 mm)	22	%	ASTM D2863
Additional Information			
NEMA Grade: GPO-1 Insulation Resistance, ASTM D257: 1.45e10 ohms			
NOTE			
1.	Method A (short time)		

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