

## Glastic SG-200 Industrial Lift Magnet

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset , Polyester, TS

### Material Notes:

Glastic Grade SG-200 high-strength and high-temperature laminates offer temperature ratings of up to 210°C. SG-200 is ideal for a wide variety of product applications requiring high-temperature NEMA GPO-1 products. It is also a superior replacement material for epoxy-bonded mica in layer insulation applications. SG-200 features the following: Extremely strong  
Excellent retention of properties at elevated temperatures  
Ideal for high temperature applications  
Easily fabricated  
Asbestos-Free  
Information provided by Glastic Corporation

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Glastic-SG-200-Industrial-Lift-Magnet.php](http://www.lookpolymers.com/polymer_Glastic-SG-200-Industrial-Lift-Magnet.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 g/cc	1.70 g/cc	ASTM D-792
Water Absorption	0.30 %	0.30 %	% by wt.; ASTM D-570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	86.2 MPa	12500 psi	ASTM D-638
Tensile Modulus	11.7 GPa	1700 ksi	ASTM D-638
Flexural Strength	200 MPa	29000 psi	ASTM D-790
Compressive Strength	248 MPa	36000 psi	ASTM D-695
Shear Strength	76.5 MPa	11100 psi	ASTM D-732
Izod Impact, Notched	6.41 J/cm	12.0 ft-lb/in	ASTM D-256

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	11.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D-696
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	ASTM C-177
UL RTI, Electrical	210 $\text{Å}^\circ\text{C}$	410 $\text{Å}^\circ\text{F}$	UL 746B
UL RTI, Mechanical without Impact	210 $\text{Å}^\circ\text{C}$	410 $\text{Å}^\circ\text{F}$	UL 746B
Flammability, UL94	HB	HB	
Oxygen Index	21.8 %	21.8 %	ASTM D-2863

Electrical Properties	Metric	English	Comments
Insulation Resistance	1.45e+14 ohm	1.45e+14 ohm	ASTM D-257
Dielectric Constant	3.7	3.7	ASTM D-150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	4.6	4.6	ASTM D-150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	19.6 kV/mm	498 kV/in	Perpendicular S/T in Air; ASTM D-149
	24.6 kV/mm	625 kV/in	Perpendicular S/T in Oil; ASTM D-149
Dissipation Factor	0.013	0.013	ASTM D-150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.037	0.037	ASTM D-150
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	120 sec	120 sec	ASTM D-495
	180 sec	180 sec	Post-cured; ASTM D-495
Comparative Tracking Index	>= 500 V	>= 500 V	UL 746A
Hot Wire Ignition, HWI	35 sec	35 sec	UL 746A
	@Thickness 0.711 mm	@Thickness 0.0280 in	
Hot Wire Ignition, HWI	39 sec	39 sec	UL 746A
	@Thickness 1.47 mm	@Thickness 0.0580 in	
High Amp Arc Ignition, HAI	>= 200 arcs	>= 200 arcs	#Exposure; UL 746A
High Voltage Arc-Tracking Rate, HVTR	0.000 mm/min	0.000 in/min	UL 746A

Descriptive Properties	Value	Comments
Electric Strength kV, ASTM D149	50	Parallel S/S in Oil
Standard Color	Natural/Tan	
UL Recognition File Number	E81928	

## Contact Songhan Plastic Technology Co.,Ltd.

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