

Industrial Lift Magnet/Grade SG-200

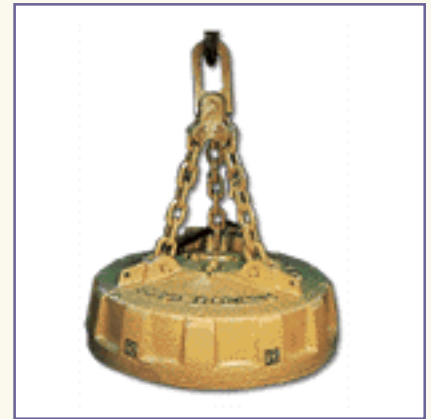
High-Strength & High-Temperature Laminate

- Extremely Strong
- Excellent Retention Of Properties At Elevated Temperatures
- Ideal For High Temperature Applications
- Easily Fabricated
- Asbestos-Free

Glastic Grade SG-200 High-Strength & High-Temperature Laminates offer temperature ratings of up to 210° C.

Because of its capabilities, Glastic SG-200 is ideal for a wide variety of product applications requiring high-temperature NEMA GPO-1 products. Grade SG-200 is also a superior replacement material for epoxy-bonded mica in layer insulation applications. SG-200 has a UL Temperature Index of 210° C Electrical and 210° C Mechanical.

Glastic Grade SG-200 is available in thicknesses of 1/32" to 1-1/4" and in a natural tan color. Special sheet sizes of 64" x 64" are available for large lifting magnets.



Glastic SG-200 laminates are used in a wide variety of lifting magnet applications.

Industrial Lift Magnet/Grade SG-200

GLASTIC LAMINATES PROPERTY TABLE

TYPICAL AVERAGE VALUES¹

GENERAL INFORMATION	UNIT	ASTM/UL NUMBER	GLASTIC GRADE SG-200
Part Number			1906
Color, Standard			Natural/Tan
MECHANICAL PROPERTIES			
NEMA Grade	----	----	GPO-1
Tensile Strength	Psi	D638	12,500
Tensile Modulus	Psi x 10 ⁶	D638	1.7
Flexural Strength	Psi	D790	29,000
Compressive Strength	Psi	D695	36,000
Shear Strength	Psi	D732	11,100
IZOD Impact Strength (notched)	ft.lb./in.	D256	12.0
Water Absorption	% by wt.	D570	0.3
Specific Gravity	----	D792	1.70
ELECTRICAL PROPERTIES			
Electrical Strength - Perpendicular S/T in air	Vpm	D149	500
Electrical Strength - Perpendicular S/T in oil	Vpm	D149	625
Electrical Strength - Parallel S/S in oil	kV	D149	50
Arc Resistance	Sec.	D495	120/180 ²
IEC Track Resistance (CTI)	V.	UL746A	500+
UL High Voltage Track Rate	In./Min.	UL746A	0
Permittivity, 60 Hz	----	D150	4.6
Dissipation Factor, 60 Hz	----	D150	0.037
Permittivity, MHz	----	D150	3.7
Dissipation Factor, MHz	----	D150	0.013
Insulation Resistance	Ohm x 10 ¹²	D257	145.0
FLAME-RESISTANCE PROPERTIES			
UL Subject 94	----	UL94	HB
UL Hot Wire Ignition	Sec.	UL746A	0.028 in./35 0.058 in./39
UL High Amp Ignition	#Exposure	UL746A	200+
Oxygen Index	%O ₂	D2863	21.8
THERMAL PROPERTIES			
Coefficient of Thermal Expansion	In/In/° C x 10 ⁻⁵	D696	2.0
Thermal Conductivity	BTU/Hr/Ft ² /In/° F	C177	1.7
UL Temperature Index - Electrical	° C	UL 746B	210
- Mechanical	° C	UL 746B	210
UL Recognition File Number	----	----	E81928

¹ Typical average values for testing 0.063 inch thick material.

² Values will vary somewhat from thickness to thickness within a material grade.

² Post-cured



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