



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

Grade SG-200 high-strength and high-temperature laminates offer temperature ratings of up to 210° C.

Because of its capabilities, Grade 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.

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.



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





Industrial Lift Magnet/Grade SG-200

	UNIT	ASTM/UL Number	Grade SG-200
General Information			
Part Number			1906
Standard Color			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	29,0a00
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
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
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



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¹ Typical average values for testing 0.063" thick material. Values will vary from thickness within a material grade.

² Post-cured.