

## LAMINATE COMPOSITE **TYPE SG-200**

Type SG-200 is a high-strength, high-temperature laminate composite that offers temperature ratings of up to 210° C (410° F). Type SG-200 is ideal for a wide variety of product applications requiring hightemperature NEMA GPO-1 products. Type SG-200 is also a superior replacement material for epoxybonded mica in layer insulation applications. Type SG-200 has a UL® Temperature Index of 210° C (410° F) Electrical and 210° C (410° F) Mechanical. Type SG-200 is available in thicknesses of 1/8" to 1" and in a tan color. Special sheet sizes up to 64" x 64" are available up to 1 1/2".

- **Excellent Electrical Properties**
- **Extremely Strong**
- **Retention of Properties at High Temps**
- **Easily Machined with Standard Tooling**
- **Asbestos Free**
- **Dust Free**
- Non-Porous, Zero Water Absorption

## **CHARACTERISTICS & PROPERTIES**

Standard Color	Tan	Arc Resistance, Sec.	120/180 <sup>2</sup>
Tensile Strength, Psi	12,500	IEC Track Resistance (CTI), V.	500+
Tensile Modulus, Psi x 10 <sup>6</sup>	1.7	UL High Voltage Track Rate, In./Min.	0
Flexural Strength, Psi	29,000	Permittivity, 60 Hz	5
Compressive Strength, Psi	36,000	Dissipation Factor, 60 Hz	0
Sheer Strength, Psi	11,100	Permittivity, MHz	4
IZOD Impact Strength, ft.lb./in.	12	Dissipation Factor, MHz	0
Water Absorption, % by wt.	0	Insulation Resistance, Ohm x 10 <sup>12</sup>	145
Specific Gravity	2	UL Subject 94	HB
Electrical Strength		UL High Amp Ignition, # Exposure	200+
Perpendicular S/T in Air, Vpm	500	Oxygen Index, %O <sub>2</sub>	21.8
Perpendicular S/T in Oil, Vpm	625	Coeff. of Thermal Expansion, In/In/ <sup>0</sup> C x 10 <sup>5</sup>	2
Parallel S/S in Oil, kV	50	Thermal Conductivity, BTU/HR/Ft²/ln/ºF	1.7

## **AVAILABILITY**

US20	SG-200, 48" X 96" X 1/8"	US26	SG-200, 48" X 48" X 1/8"	US32	SG-200, 24" X 48" X 1/8"
US21	SG-200, 48" X 96" X 1/4"	US27	SG-200, 48" X 48" X 1/4"	US33	SG-200, 24" X 48" X 1/4"
US22	SG-200, 48" X 96" X 3/8"	US28	SG-200, 48" X 48" X 3/8"	US34	SG-200, 24" X 48" X 3/8"
US23	SG-200, 48" X 96" X 1/2"	US29	SG-200, 48" X 48" X 1/2"	US35	SG-200, 24" X 48" X 1/2"
US24	SG-200, 48" X 96" X 3/4"	US30	SG-200, 48" X 48" X 3/4"	US36	SG-200, 24" X 48" X 3/4"
US25	SG-200, 48" X 96" X 1"	US31	SG-200, 48" X 48" X 1"	US37	SG-200, 24" X 48" X 1"

## **ZIRCAR Refractory Composites, Inc.**

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