

**Silicone Resin Glass Laminated Sheets****GB 4206-84**

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This standard is applicable to the silicone resin glass laminated sheets formed by heating and pressing, which takes the silicone resin as the binder, and alkali free glass cloth as the substrate.

The SIGC<sub>1</sub> type silicone resin glass laminated sheets have a good dielectric property not only in dry state, but also in wet state, suitable for electronic industry and other electrical purposes.

The SIGC<sub>2</sub> type silicone resin glass laminated sheets have a good heat resistance, suitable for high temperature mechanical and electrical applications.

This standard is equivalent to the technical requirements for SIGC1 and SIGC2 laminated sheets in the ISO 1642-1979 (E) "*Specification for Thermosetting Resin Industrial Laminated Sheets*" formulated by International Standardization Organization.

**1 Technical requirements****1.1 Appearance**

The edges of the laminated sheets shall be cut in order, and there shall be no delamination and crack in the cross section.

There shall be no bubbles, wrinkles, or pockmarks on the surface of the laminated sheets; slight scratches, pits and color difference are allowed, and a small amount of splashes are allowed.

**1.2 Dimensions and deviations****1.2.1 Width and length:**

The scope of the width and the length of the laminated sheets and the deviation of its corresponding size shall be in accordance with the provisions of Table 1.

**Table 1**

mm

Width and length (nominal size)	Deviation
450 ~1000	± 15
>1000~2000	± 25

Note: If the dimensions are different from the nominal sizes, the production can be carried out after a negotiation is reached by the supplier and the buyer.

**1.2.2 Thickness**

The nominal thickness and the deviation of the laminated sheets are as specified in Table 2. The accuracy of the measuring instruments shall be 0.01mm, the diameter of the measuring head shall be 6~8mm, and the stress on the samples shall be 0.1~0.2kgf / cm<sup>2</sup>.

**Table 2**

mm

Nominal thickness	Single point deviation	Nominal thickness	Single point deviation	Nominal thickness	Single point deviation
0.4	± 0.10	2.0	± 0.28	10.0	± 10.82
0.5	± 0.12	2.5	± 0.33	12.0	± 0.94
0.6	± 0.13	3.0	± 0.37	14.0	± 1.02
0.8	± 0.16	4.0	± 0.45	16.0	± 1.12
1	± 0.18	5.0	± 0.52	20.0	± 1.30
1.2	± 0.21	6.0	± 0.60	25.0	± 1.50
1.6	± 0.24	8.0	± 0.72		

Note: Non-nominal thickness can be produced after a negotiation is reached by the supplier and the buyer, and the deviation shall refer to the deviation value of the next larger nominal thickness.

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### 1.3 Warpage

For the laminated sheet the nominal thickness of which is 3mm or above, when it is freely placed on a horizontal surface with the concave upward, the distance from the light ruler put on the sheet in any direction to any point of the sheet surface shall not exceed the corresponding values listed in Table 3.

Table 3 Maximum allowable distance from the ruler to the sheet surface

Thickness	Ruler length	
	1000	500
3~6	15	4
> 6 ~ 8	12	3
>8	10	2.5 .

### 1.4 Mechanical processing

After sawing, drilling, lathing, milling, planing and other mechanical processing, the laminated sheets shall not crack or peel off.

1.5 The physical, mechanical and electrical performance of the laminated sheets shall be in accordance with the provisions of Table 4.

Table 4

S / N	Item	Test method clause	Unit	Maximum or minimum nominal thickness (mm) of the test sheet	Index	
					SIGC <sub>1</sub>	SIGC <sub>2</sub>
1	Bending strength of vertical sheet (minimum value)	2.4	kgf /cm <sup>2</sup> (MPa )	Minimum 1.5	920 -90	1220* -120
2	Impact strength (Notched sample, parallel sheet test) Charpy test (minimum value)	2.5	kgf -cm /cm <sup>2</sup> (KJ/m <sup>2</sup> )	Minimum 1.5	20.4 -20	25.5 -25

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