



# DATA SHEET

## SHEGF – G10

**SHEET, EPOXY GLASS**

**TYPE - G10**

**880A similar to NEMA G10**

G10 Sheets are made from electrical alkali-free glass cloth, impregnated with epoxy resin, after the curing and hot-pressing process.

Mechanical, electrical and electronic applications; high mechanical strength under moderate temperature; good electrical properties under high humidity.

**PRODUCT APPLICATION**

Temperature grade: B glass (130C)

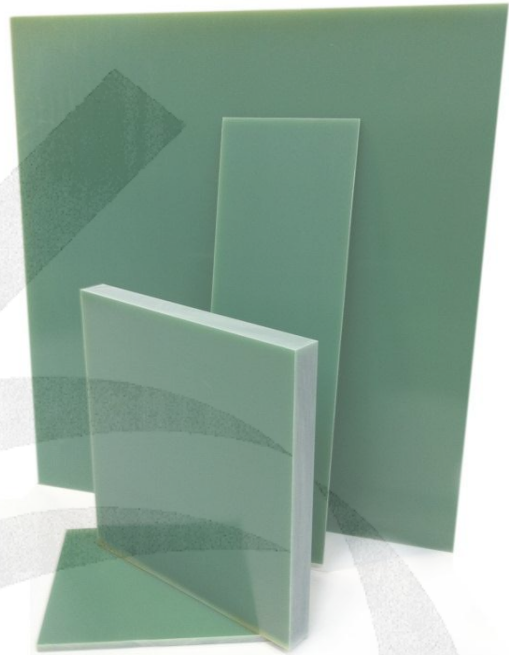
Resin: Epoxy

Colour: Green

Thickness: 0.5-80mm

Size: 1020x1220mm 1020x2040mm 1220x2470mm

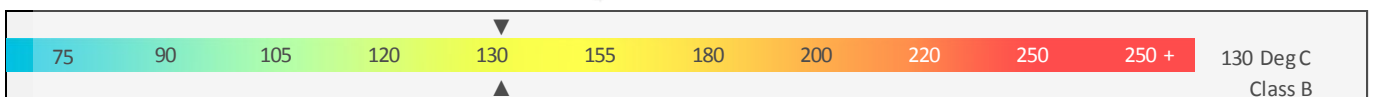
Density: 1.9~2.0 g/cm<sup>3</sup>



SHEETS

**PRODUCT TECHNOLOGY**

| PROPERTIES  |    | PROCESSING CONDITION | UNIT              | NOMINAL THICKNESS OF SHEET TO WHICH TEST IS APPLICABLE | 880A<br>G10      |
|---|----|----------------------|-------------------|--|------------------|
| Flexural Strength (min)   | LW | A                    | MPa               | ≥ 1.6  | -                |
|   | CW |                      |                   |  | 350              |
|   | LW | E-1/150 T15<br>0     |                   |  | -                |
| Bonding strength (min)  |    | A                    | N                 | ≥ 10   | 6500             |
|   |    | D-48/50              |                   |  | -                |
| Impact strength (min)   | LW | E-48/50              | kJ/m <sup>2</sup> | ≥ 5  | -                |
|   | CW |                      |                   |  | 37 (A)           |
| Compressive Strength  |    | D659                 | PSI               | 3.2  | 65000            |
| Dielectric Strength (Short time)  |    | D149                 | Volts/Mil         | 3.2  | 650              |
| Dielectric strength Perpendicular to laminations (in 90±2C transformer oil) (min) |    | A                    | kV/mm             | ≤ 3  | 14.2             |
|   |    |                      |                   |  | 1mm in thickness |



**Temperature Index**



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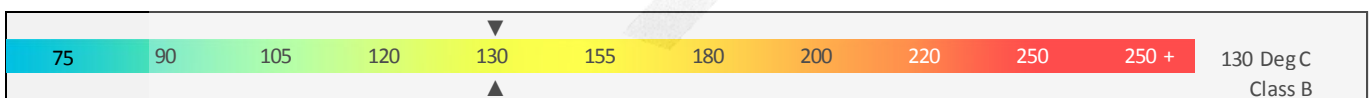
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SHEETS

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|--|----------------------|-------|--|----------------------|
| Breakdown voltage (min)                                | A                    | kV    | ≥ 3  | 45.0                 |
|  | D-48/50              |       |  | -                    |
| Permittivity (max)                                     | A                    | -     | ≤ 3  | 5.5                  |
|  | D-24/23              |       |  | -                    |
|  | D-48/50              |       |  | -                    |
| Dissipation factor (max)                               | A                    | -     | ≤ 3  | 0.04                 |
|  | D-24/23              |       |  | -                    |
|  | D-48/50              |       |  | -                    |
| Insulation resistance after Impregnated in water (min) | D-24/23              | ?     | all  | 5.0X10 <sup>10</sup> |
| Water absorption rate (max)                            | D-24/23              | %     | all  | 0.15                 |
| Flammability   |                      | Class | 3  | -                    |



Temperature Index