



TERMOGASKET

sealing technology



DIVISION: Technical laminates

TECHNICAL DATA SHEET

ELECTROINSULATING MATERIALS

EPOXY GLASS CLOTH LAMINATED SHEETS

The phenolic glass cloth laminated sheets are laminated material, made through the hot pressing of two or more layers of alkali-free glass material (with unbroken fibre), reinforced with thermoreactive resin of phenol or epoxide type.

* Delivery at request of copper-folio-faced phenolic glass cloth laminated sheets.

PHENOLIC COTTON CLOTH LAMINATED SHEETS

The phenolic cotton cloth laminated sheets are made by a laminated material through the hot pressing of two or more layers of cotton fabric, reinforced with synthetic thermoreactive resins of phenol-formaldehyde type, cresol-formaldehydes, mixture of these resins or their modifications.

PHENOLIC COTTON CLOTH LAMINATED ROD

The phenolic cotton cloth laminated rods with circular section are made through pressing of cotton fibre in a pressform, reinforced with thermoreactive resin of phenol type.

PHENOLIC PAPER LAMINATED SHEETS

The phenolic paper laminated sheets is a layered material, made through the hot pressing of two or more layers of electroinsulating paper, reinforced with synthetic thermoreactive resins of phenol-formaldehyde and cresol-formaldehyde type, mixture of these resins or their modifications.

The surface area of all materials is plain, smooth, evenly painted in natural color, without air or gas bubbles and current-carrying switches. They can be mechanically treated: cut, drilled, turned on a lathe, milled, punched with no occurrence of cracks or dislodges.

TECHNICAL PARAMETERS

| | EPOXY GLASS CLOTH LAMINATED SHEETS | PHENOLIC COTTON CLOTH LAMINATED SHEETS | PHENOLIC COTTON CLOTH LAMINATED ROD | PHENOLIC PAPER LAMINATED SHEETS |
|---|------------------------------------|--|-------------------------------------|---------------------------------|
| Size | 1980 x 980 ±10 mm | 1980 x 980 ±10 mm | 1000 ± 5 mm | 1980 x 980 ±10 mm |
| Thicknesses (diameters) | 0.4 ÷ 50 mm | 0.8 ÷ 50 mm | Ø6 ÷ Ø200 | 0.4 ÷ 50 mm |
| Density | 1.7 ÷ 1.9 g/cm ³ | 1.3 ÷ 1.4 g/cm ³ | 1.32 ÷ 1.39 g/cm ³ | 1.3 ÷ 1.4 g/cm ³ |
| Flexural strength perpendicular to lamination | > 340 MPa | > 70 MPa | > 88 MPa | > 90 MPa |
| Bonding strength | | > 5500 N | | > 2800 N |
| Notch impact strength parallel to lamination (Charpy) | > 33 kJ/m ² | | | |
| Dielectric strength perpendicular to lamination (in oil 90 ± 2 °C) | > 14,2 MV/m | > 2 MV/m (1.5-2 mm) | | > 12 MV/m |
| Breakdown voltage parallel to lamination (in oil 90 ± 2 °C) | > 35 kV | | | |
| Breakdown voltage parallel to lamination (in transformer oil 20 ± 5 °C) | | | > 10 kV | > 10 kV |
| Insulation resistance after impregnated in water | > 5x10 ⁸ Om | | | |
| Insulation resistance parallel to the lamination | | | > 1x10 ⁸ Om | > 1x10 ⁹ Om |