

Poromat® 2248

Description

Poromat® 2248 is a swellable and porous laminate, consisting of a glass mat and a small amount of epoxy resin binder which is pressed into a rigid sheet. A thin layer of polyester scrim is also placed on both sheet surfaces during the pressing operation. The polyester scrim minimises contact with glass fibres and also enhances strength and aids in clean edges when cut.

At temperatures > 60°C or in contact with impregnating resins the laminate swells to about 150% of its initial thickness and fills up all existing free space. The resultant pressure which is developed from this process is equal to approximately 0.1 N/mm².

The properties of the final laminate depend on the impregnating resin which is used and the amount of swelling.

Application

Poromat® 2248 is used only in VPI systems as interlayer, spacer or filling material in different parts of electrical windings. Poromat® 2248 was developed especially for impregnating resins containing accelerator or catalyst.

Availability

Standard Sheet Size : 1200mm x 1000mm ± 50 mm

Thickness Range : 0.5mm, 0.85mm, 1.2mm, 2.2mm (Nominal)

Processing Advice

Poromat® 2248 can be cut with hammer shears.

Small and narrow strips should preferably be made out of thin laminates.

Storage and Shelf Life

Store sheets lying in a flat position at a temperature of ≤ 30°C

Minimum 6 months shelf life when stored at 20°C

Minimum 12 months shelf life when stored at 5°C

ISOVOLTA AG is a member of Constantia Industries



Phone: 1300 098 060

Web: www.agaus.com.au

12-3-2009

V.01/09

3016R0114AGDOCg

THIS INFORMATION SHOULD NOT BE TREATED AS A SUBSTITUTE FOR SPECIFIC TECHNICAL ADVICE. ASSOCIATED GASKETS DOES NOT GIVE SUCH ADVICE & CANNOT WARRANT THE PERFORMANCE OR SUITABILITY OF PRODUCTS FOR PARTICULAR APPLICATIONS.

Associated Gaskets Pty Ltd providing Quality first solutions

Poromat® 2248

| Properties | Test Method | Unit | Value | Value | Value | Value |
|--|-------------|------------------|-------------|-------------|-------------|-------------|
| Nominal Thickness | IEC 60371-2 | mm | 0.50 ± 0.2 | 0.85 ± 0.2 | 1.2 ± 0.2 | 2.2 ± 0.2 |
| Total Substance | IEC 60371-2 | g/m ² | 625 ± 116 | 1200 ± 216 | 1775 ± 321 | 3500 ± 636 |
| Glass Content | IEC 60371-2 | g/m ² | 435 ± 90 | 870 ± 170 | 1305 ± 255 | 2610 ± 510 |
| PET Fleece (Both Sides) | IEC 60371-2 | g/m ² | 50 ± 6 | 50 ± 6 | 50 ± 6 | 50 ± 6 |
| Organic Content (Resin, PET Fleece) | IEC 60371-2 | g/m ² | 190 ± 26 | 330 ± 46 | 470 ± 66 | 890 ± 126 |
| Swelling Temperature Minimum | - | °C | > 60°C | > 60°C | > 60°C | > 60°C |
| Swelling (Increase from Initial Thickness) | IPV 41 | % | ≥ 150 | ≥ 150 | ≥ 150 | ≥ 150 |
| Total Swellable Thickness (Initial Thickness + 150%) | | mm | ≥ 1.25 | ≥ 2.12 | ≥ 3.0 | ≥ 5.5 |
| Colour | - | - | Blue / Grey | Blue / Grey | Blue / Grey | Blue / Grey |

ISOVOLTA AG is a member of Constantia Industries


Phone: 1300 098 060
Web: www.agaus.com.au

12-3-2009

V.01/09

3016R0114AGDOCg

THIS INFORMATION SHOULD NOT BE TREATED AS A SUBSTITUTE FOR SPECIFIC TECHNICAL ADVICE. ASSOCIATED GASKETS DOES NOT GIVE SUCH ADVICE & CANNOT WARRANT THE PERFORMANCE OR SUITABILITY OF PRODUCTS FOR PARTICULAR APPLICATIONS.

Associated Gaskets Pty Ltd providing Quality first solutions