

POROMAT® 2248

Description:

Swellable porous epoxy glass matt, both sides PET-fleece covered, as interlayer, spacer and filling material.

Properties:

POROMAT® 2248 contains only a small amount of binder and therefore it is porous and absorbent. At temperatures $> 60^{\circ}\text{C}$ or in contact with impregnating resins the laminate swells to about 150 % of the initial thickness and fills up an existing free space. The developed pressure is approx. $0,1\text{ N/mm}^2$.

The properties of the final „laminate“ depend on the impregnating resin used and the percentage of the swelling.

Application:

POROMAT® 2248 can be used in VPI systems as interlayer, spacer or filling material in different parts of electrical windings.

POROMAT® 2248 was developed specially for impregnating resins with built in accelerator or catalyst.

Materials:

POROMAT® 2248 consists of glass mat compressed with a small amount of epoxy resin to rigid but porous laminate.

Formats:

Thickness: 0.5; 0.85; 1.2; 2.2 mm

Size: $1000 \pm 50 \times 2000 \pm 50\text{ mm}$
 $1000 \pm 50 \times 1000 \pm 50\text{ mm}$
 $1000 \pm 50 \times 500 \pm 50\text{ mm}$

Storability:

min. 6 months at 20°C

min. 12 months at 5°C

Attention: Do not store above $30^{\circ}\text{C}!!$

Processing advice:

POROMAT® 2248 can be cut with hammer shears. Small strips should preferably be made out of thin laminates.

Technical Data

POROMAT® 2248						
Properties	Test method	Unit	Value	Value	Value	Value
Nominal thickness		mm	0.50	0.85	1.2	2.2
Tolerance	DIN 863	mm	± 0.2	± 0.2	± 0.2	± 0.2
Total substance	ISO 3374	g/m ²	625 ± 116	1200 ± 216	1775 ± 321	3500 ± 636
Glass content		g/m ²	435 ± 90	870 ± 170	1305 ± 255	2610 ± 510
PET-fleece (both sides)		g/m ²	50 ± 6	50 ± 6	50 ± 6	50 ± 6
Organic content (Resin. finish. PET-fleece)	ISO 1887	g/m ²	190 ± 26	330 ± 46	470 ± 66	890 ± 126
Swelling (referred to initial thickness)	IPV no. 41	%	≥ 150	≥ 150	≥ 150	≥ 150
Colour			blue	blue	blue	blue