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## Glass-fibre-duct-spacing-mats

Glass-fibre-profiles connected with insulating tapes.

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### Attributes

Glass-fibre-duct-spacing-mats are a cost effective cooling channel solutions with free selectable / adjustable distances of single profiles. Also different profile-shapes can be used in one mat.

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### Application

Glass-fibre-duct-spacing-mats are used in transformer and coils with cooling channels. They can be used in automated winding processes.

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### Standards

Insulating material class H (180 °C)

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### Delivery forms

Length: Up to 25 m

Width: Up to 3000 mm

Also deliverable in kits.

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### Base

#### Profiles:

- dogbone
- square
- round

#### Insulating tapes:

- SynTherm® YT510
- NOMEX®
- SynTherm® DMD
- SynTherm® APA
- SynTherm® NPN
- MYLAR® A

Other materials on request.

General	Unit of measure	
Casting resin		Polyester / Epoxy
Reinforcement		Glas-Roving
Fibre content	%	> 60
Specific weight	g/cm <sup>3</sup>	> 1.85
Bending strength	N/mm <sup>2</sup>	480
Bending strength E-Module	N/mm <sup>2</sup>	35x10 <sup>^3</sup>
Tensile strength	N/mm <sup>2</sup>	450
Compressive strength	N/mm <sup>2</sup>	240
Dielectric constant		apprx. 4
Specific resistance	Ωxcm	10 <sup>^12</sup>
1-Min.-voltage test	kV/mm	8
Coefficient of expansion	K-1	10-15 <sup>^-6</sup>
Water absorption	%	< 5
Thermal conductivity	W/m*K	0.3
Thermal class		H (180 °C)

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