
Fibre Glass Reinforced Profiles (FRP)

FRP profiles are manufactured via endless pultrusion and are based on an unsaturated polyester resin reinforced with approx. 65 % fibre glass.

Attributes

FRP profiles have excellent properties:

- high mechanical resistance
- good heat and cold resistance
- high impact strength
- high damping against mechanical vibrations
- good chemical resistance

Application

FRP profiles are generally used, e.g., as slot closures in electric machines and other electronic sectors. They provide exceptional advantages in applications with high thermal and mechanical stress.

Delivery forms

Standard length 1 m, bundle contains 100 pieces

Dimensions in mm

3.0 x 2.0	6.0 x 3.0
3.0 x 3.0	7.0 x 2.0
4.0 x 2.0	7.0 x 3.0
4.0 x 3.0	7.0 x 4.0
5.0 x 2.0	7.0 x 5.0
5.0 x 3.0	8.0 x 3.0
5.0 x 4.0	8.0 x 4.0
6.0 x 2.0	

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Thermal	Unit of measure	Values
Thermal conductivity	W/m*K	0.3
Coefficient of thermal expansion		15 - 25 x 10 ⁻⁶ /K
Thermal class		H

Electrical	Unit of measure	Values
Dielectric constant (50 Hz)		< 5
Creep resistance		CTI 600
Dielectric strength	kV/mm	5-10

Mechanical	Unit of measure	Values
Bending strength longitudinal	MPa	350-800
Bending strength transversal	MPa	35-110
Tensile strength longitudinal	MPa	200-450
Tensile strength transversal	MPa	30-90
Compressive strength, transversal	%	100-300

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