
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 | |

The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet.

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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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