

Square tubes and rods|made of|KRÜTEX®

Profile tubes made of cotton-fabric type Krütex 100-P or 102-P are mainly used in the low voltage sector as insulators with high mechanic values. These profile tubes can have a quadratic, rectangular, oval or hexagonal shape depending on the available pressing tools. Besides that we can also cut out squares in L- and U-shape of the profile tubes.

Rods are mainly used to produce all kinds of machined parts.

Structure: Profile tubes made of Krütex consist of with phenolic resin impregnated cotton-fabric-layers. They are wined parallel on winding machines and then get exactly shaped and at the same time hardened in hydraulic presses and heated press tools. There these layers get indissoluble. The finished parts then get worked to the customer's requirements. Rods are core-less wined and then get compressed in hydraulic presses.

Type	DIN ISO EN 61212	DIN 7735
Krütex 100-P	PF CC 32/42	Hgw 2085
Krütex 102-P	PF CC 31/41	Hgw 2085

Normal sizes and tolerances:

Rods: from \varnothing 5 mm up to \varnothing 200 mm in lengths of about 1050 mm
Square tubes: from about 4 mm up to 200 mm inside
wall-thickness from 1 mm depending of the size
Tolerances: according to EN 61212-3-1 or after agreement

Technical Terms	Unit	Krütex 100-P	Krütex 102-P
Voltage, parallel	kV/3mm	5	5
Density	g/cm ³	1,2-1,4	1,2-1,4
Temperature resistance	Celsius	120	120
Compression, axial	MPa	80	90
Flexural strenght	MPa	90	125
Flexural modulus	N/mm ²	7.000	7.000
Water absorbtion	mg/cm ²	8	5

The above called specifications were made to the best of our knowledge. It is recommended to prove the material in case of doubt for special applications. All values are the minimum requirement!