

Square tubes|made of|KRÜLIT®

Profile pipes made of epoxy type Krülit are used in all areas of the electrical industry due to the excellent mechanical, thermal and electrical properties. High dimensional stability even in upper temperature ranges allow narrow machining tolerances. In the cold range, however, the 708-P has proved its worth. These profile tubes can have a square, rectangular, oval or hexagonal size depending on the respective pressing tools present. In addition, angles in L- or U-shaped form can be cut from profile tubes. Angles cut from pressed pipes have a higher strength compared to pultruded profiles and can also be produced easily in smaller batch sizes.

Construction: Krülit profile tubes are made of glass-fiber fabric impregnated with epoxy resin. They are wound in parallel on winding machines and subsequently shaped exactly in hydraulic presses in heated press tools and at the same time hardened. In doing so, the layers go into an insoluble state. The finished tubes are then processed according to customer requirements. We produce the following Krülit types:

Type	DIN ISO EN 61212	DIN 7735
Krülit® 708-P	EP GC 21	Hgw 2378
Krülit® 758-P	EP GC 22	Hgw 2378.4

Normal sizes and tolerances:

Inside:	from 4 mm up to 200 mm
Wall thickness:	from 1 mm, depending on diameter
Length:	from 500 mm up to 1200 mm depending on type and size
Tolerances:	according to EN 61212-3-2 and 3-3 or after agreement

Technical Terms	Unit	Krülit 708-P	Krülit 758-P
Compression, vertical	MPa	150	200
Flexural strenght	MPa	350	350
Tensile strenght	MPa	220	220
Modulus of elasticity	N/mm ²	18.000	18.000
Density	g/cm ³	1,7-1,8	1,7-1,9
Water absorbtion	mg/cm ²	2,0	0,4
Temperature resistance	Celsius	130	155
Dielectric strength, parallel	kV/25mm	40	40
Dielectric strength, vertical	kV/3mm	40	40
Surface resistivity	Ohm	10 ¹²	10 ¹²
Tracking resistance		KA 1 KB 100	KA 1 KB 100

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!