

Squared Tubes

VETRONITE PGS 4KT



- Form pressed version
- Good mechanical and electrical properties
- “Low smoke” material especially suitable for aircraft and aeronautics

	Unit	Value	Test norm
Mechanical properties			
Flexural strength	MPa	300	EN 61212-2
E-Modulus	MPa	21500	ISO 178
Compressive strength axial	MPa	115	EN 61212-2
Tensile strength	MPa	100	EN 61212-2
Electrical properties			
Insulation resistance after immersion in water	Ohm	1,0E+9	DIN EN 62631-3-3
Breakdown voltage // 90°C in oil	kV	10	IEC 60243-1
Electric strength ⊥ 90°C in oil	kV/mm	5	IEC 60243-1
Comparative tracking index (CTI)	°C	200	IEC 60112
Thermal properties			
Temperature index (TI)	°C	120	IEC 60216
Physical properties			
Density	g/cm ³	1,75 – 1,85	ISO 1183
Water absorption 24 h 23°C	%	0,2	ISO 62

Description

Vetronite PGS 4KT consists of phenolic resin with a reinforcement of glass cloth.

RoHS Directive

Hazardous products listed in the EU-directive 2011/65/EU (RoHS-directive), annex II and amendment 2015/863/EU are not used as ingredients in this material.

Colour

Brown

Application

Electrical insulation
Aerospace and aeronautics
Telecommunication

Form of delivery

This type will be supplied in form of squared tubes and machined parts out of such tubes.

Produced against customer drawing or specification.

Max. length 1000 - 50 mm.

Hexagonal shape or other geometries on request.

The data supplied are typical values. They are not to be considered specification values. All of the information, suggestions, and recommendations about these properties and uses of the products herein are based on tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty - expressed or implied - including, without limitation, warranties of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.

VRI Composites custom fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. A variety of dimensions and diameter sizes are available. Product colors vary according to material type.

VRIR 02/2026