



Apium PEEK GFR

Glass Fiber Reinforced Polyetheretherketone, a high performance thermoplastic compound with 20% fibers

Description of the Material:

Apium PEEK GFR, Ø1,75 mm – High stiffness, high thermal resistance, high chemical resistance, bio inert, low warping, tight dimensional tolerances, low weight, post treatment possible

Applications:

Apium PEEK GFR is a great material for a variety of industrial applications.

Material Properties: Filament and printed sample (Open Source 3D printer) properties

	Conditions	Test Methodology	Unit	Value
Mechanical Properties				
Tensile Strength	23° C	ISO 527	MPa	105
Tensile Elongation	23° C	ISO 527	%	2.5
Young's Modulus	23° C	ISO 527	MPa	7250
Impact Strength (Charpy)	23° C	ISO 179/1eU	kJ/m ²	-
Flexural Strength	23 °C	ISO 178	MPa	130
Flexural Modulus	23 °C	ISO 178	MPa	7625
Thermal Properties				
Melting Temperature		DIN 53765	°C	343
Glass Transition Temperature		DIN 53765	°C	143
Decomposition Temperature			°C	550
Miscellaneous				
Density	Semi-Crystalline	ISO 1183	g/cm ³	1.44
Electrical Properties				
Volume Resistance		IEC 60093	Ohm	-
Surface Resistance		ASTM D257	Ohm/sq	>10¹³
Fire, Smoke and Toxicity				
Glow Wire Test	GWIT 2 mm	IEC 60695-2-12/13	°C	-
Oxygen Index	3.2 mm	ISO 4589	%	-
Toxicity Index	CO ² Content	NES 713	n/a	-
Flame Retardancy Class	UL 94	IEC 60695		-

Important remarks:

- 1) The data have been generated for Apium Additive Technologies in accordance with applicable national, international and internal standards and are intended for material comparison. Typical values may vary depending on part geometry and processing parameters.

For further information and detailed data please contact us.

The materials, products and services of Apium Additive Technologies GmbH are sold under consideration of the general terms and conditions, which are available on request. By providing the information contained in the data sheets, Apium Additive Technologies is acting in good faith. It is the responsibility of the customer to test and analyze the products for specific applications, suitability, performance and safety in the end use. Furthermore, Apium Additive Technologies reserves the right to change the products, their specifications and packaging.

www.apiumtec.com | +49 721 13 20 95 0 | info@apiumtec.com

