



Apium PEEK 4000 Natural

Polyetheretherketone, a high performance thermoplastic

Description of the Material:

Apium PEEK 4000 Natural, Ø1,75 mm - High thermal resistance, high chemical resistance, high stress resistance, bio inert, low weight, post treatment possible

Applications:

Apium PEEK 4000 shows a printing behaviour that is beneficial for material extrusion processes. On top of that, its polymer structure exhibits improved mechanical properties compared other PEEK filaments in the market.

Material Properties: Raw Material

	Conditions	Test Methodology	Unit	Value
Mechanical Properties				
Tensile Strength	23° C	ISO 527	MPa	94
Tensile Elongation	23° C	ISO 527	%	30
Young's Modulus	23° C	ISO 527	MPa	3600
Impact Strength (Charpy)	23° C	ISO 179/1eU	kJ/m ²	-
Thermal Properties				
Melting Temperature		ISO 11357	°C	340
Glass Transition Temperature		DIN 53765	°C	143
Decomposition Temperature			°C	550
Miscellaneous				
Density	Semi-Crystalline	ISO 1183	g/cm ³	1.3
Electrical Properties				
Volume Resistivity		IEC 60093	Ωcm	10¹⁴
Surface Resistance		IEC 60093	Ω	10¹⁴
Fire, Smoke and Toxicity				
Glow Wire Test	GWIT 2 mm	IEC 60695-2-12/13	°C	825
	GWFI 2mm	IEC 60695-2-12/13	°C	960
Oxygen Index	3.2 mm	ISO 4589	%	36
Toxicity Index	CO ² Content	NES 713	n/a	-
Flame Retardancy Class	UL 94	IEC 60695		V-0

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

