



Apium PEEK 450 Natural

Polyetheretherketone, a high performance thermoplastic

Description of the Material:

Apium PEEK 450 Natural, Ø1,75 mm - High thermal resistance, high chemical resistance, high stress resistance, bio inert, low weight, post treatment possible

Applications:

PEEK is known for various applications, from food and drug, to electronical components to fixtures and chemical resistant parts. It is a well established polymer representing the high end region of thermoplastics.

Material Properties: Raw Material

	Conditions	Test Methodology	Unit	Value
Mechanical Properties				
Tensile Strength	23° C	ISO 527	MPa	98
Tensile Elongation	23° C	ISO 527	%	45
Young's Modulus	23° C	ISO 527	MPa	4000
Impact Strength (Charpy)	Notched, 23° C	ISO 179-1eU	kJ/m ²	7.0
Thermal Properties				
Melting Temperature		DIN 53765	°C	343
Glass Transition Temperature		DIN 53765	°C	143
Decomposition Temperature			°C	550
Miscellaneous				
Density	Semi-Crystalline		g/cm ³	1.3
Electrical Properties				
Volume Resistivity	23° C	IEC 60093	Ωcm	10¹⁶
Surface Resistance		IEC 60093	Ω/sq	-
Fire, Smoke and Toxicity				
Glow Wire Test	2 mm Thickness	IEC 60695-2-12	°C	960
Oxygen Index	0.4 mm Thickness	ISO 4589	%	24
	3.2 mm Thickness			
Toxicity Index	CO ² Content	NES 713	n/a	0.074
Flame Retardancy Class				-

Important remarks:

- 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.

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