



Apium PEEK 450 Black

Polyetheretherketone, a high performance thermoplastic in black color

Description of the Material:

Apium PEEK 450 Black, 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 electronic 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	-
Tensile Elongation	23° C	ISO 527	%	-
Young's Modulus	23° C	ISO 527	MPa	-
Impact Strength (Charpy)	23° C	ISO 179-1eU	kJ/m ²	-
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
Elektric Properties				
Volume Resistivity		IEC 60093	Ω cm	-
Surface Resistance		IEC 60093	Ω/sq	-
Fire, Smoke and Toxicity				
Glow Wire Test	2 mm Thickness	IEC 60695-2-12	°C	-
Oxygen Index	0.4 mm Thickness	ISO 4589	%	-
Toxicity Index	CO ² Content	NES 713	n/a	-
Flame Retardancy Class				-

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.

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