



Apium PEKK Amorph

Polyetherketoneketone, a high performance thermoplastic compound with significantly delayed crystallization

Description of the Material:

Apium PEKK Amorph, Ø1,75 mm – Medium thermal resistance, high chemical resistance, high stress resistance, low weight, post treatment possible, little warping

Applications:

PEKK Amorph is a closely related material to PEEK. Therefore PEKK Amorph can be used for similar applications like PEEK. Since this compound has a significant delayed crystallisation, it is not recommended for environments where high energy is implied on the material.

Material Properties: Filament and Printed Sample (Open Source 3D Printer) Properties

	Conditions	Test Methodology	Unit	Value
Mechanical Properties				
Tensile Modulus	23 °C	ISO 527	MPa	2850
Tensile strength	23 °C	ISO 527	MPa	85
Elongation at break	23 °C	ISO 527	%	8
Thermal Properties				
Melting temperature			°C	300-365
Glass Transition Temperature		ISO 11357 DSC	°C	159
Decomposition Temperature				500
Miscellaneous				
Density	Amorphous	ISO 1183	g/cm ³	1.26
Electrical Properties				
Volume Resistivity		IEC 60093	Ωcm	-
Surface Resistivity		ASTM D257	Ohm/m ²	10¹⁶
Fire, Smoke and Toxicity				
Glow Wire Test	2 mm Thickness	IEC 60695-2-12	°C	-
Oxygen Index	0.4 mm Thickness	ISO 4589	% O ²	-
Toxicity Index	CO ² Content	NES 713	n/a	-
Flame Retardancy Class	UL94			V0

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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