



# Apium PEEK 450 Blue

Polyetheretherketone, a high performance thermoplastic  
in blue color

## Description of Material:

Apium PEEK 450 Blue, 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
<b>Mechanical Properties</b>				
Tensile Strength	23° C	ISO 527	MPa	<b>95</b>
Tensile Elongation	23° C	ISO 527	%	<b>25</b>
Young's Modulus	23° C	ISO 527	MPa	<b>3700</b>
Impact Strength (Charpy)	23° C	ISO 179-1eU	kJ/m <sup>2</sup>	-
<b>Thermal Properties</b>				
Melting Temperature		DIN 53765	°C	<b>343</b>
Glass Transition Temperature		DIN 53765	°C	<b>143</b>
Decomposition Temperature			°C	<b>550</b>
<b>Miscellaneous</b>				
Density	Semi-Crystalline		g/cm <sup>3</sup>	<b>1.3</b>
<b>Electrical Properties</b>				
Volume Resistivity		IEC 60093	Ω cm	-
Surface Resistance		IEC 60093	Ω/sq	-
<b>Fire, Smoke and Toxicity</b>				
Glow Wire Test	2 mm Thickness	IEC 60695-2-12	°C	-
Oxygen Index	0.4 mm Thickness	ISO 4589	%	-
Toxicity Index	CO <sup>2</sup> Content	NES 713	n/a	-
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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