



Apium PVDF

Polyvinylidene fluoride, a technical polymer
for chemical applications

Description of the Material:

Apium PVDF, Ø1,75 mm – Highest chemical resistance, very low friction coefficient, low weight, post treatment possible

Applications:

Resistant to most of the extreme chemicals, especially suitable for harsh environments

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	2450
Tensile strength, Break	23 °C	ISO 527	MPa	51
Elongation at break	23 °C	ISO 527	%	25
Flexural Strength	23 °C	ISO 178	MPa	50
Flexural Modulus	23 °C	ISO 178	MPa	1800
Thermal Properties				
Melting temperature		ISO 11357	°C	170
Glass Transition Temperature		DSC	°C	105
Decomposition Temperature				-
Miscellaneous				
Density	Semi-Crystalline		g/cc	1.71
Electrical Properties				
Volume Resistivity	23° C	IEC 60093	Ωcm	-
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	% O ²	-
Toxicity Index	CO ² Content	NES 713	n/a	-
Flame Retardancy Class	UL94			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.

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