



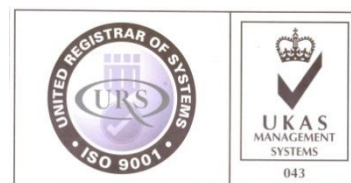
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**Fluteck K300
 Extruded Polyetheretherketone Victrex 450G**

**Material Specification
 (Typical Properties)**

Physical

Property	Method	Units	Specification
Specific Gravity	ASTM D792	g/cm ³	2,110 – 2,160
Water Absorption	ISO 62 (24 hours immersion)	%	0,100 – 0,500
Linear mould shrinkage	---	Cm/cm	---

Mechanical

Property	Method	Units	Specification
Elongation at Break	ISO 527-1	%	3 – 75
Tensile strength at break	ISO 527-1	MPa	80 – 150
Tensile modulus	ISO 527-1	MPa	2200 – 3500
Charpy impact strength	ISO 179/1 cA	KJ/m ²	No Break
Hardness Shore	ASTM2240	Shore D	80 – 92
Hardness Rockwell	--	Rockwell M	---
Ball Hardness	ISO 2039-1 N358	N/mm ²	90 - 140

Electrical

Property	Method	Units	Specification
Volume resistivity	IEC 60093	Ohm cm	10 ¹⁵
Surface resistance	IEC 60093	Ohm	10 ¹⁴
Dielectric strength	IEC 60243	KV/mm	25
Relative permittivity	IEC 60250	1MHz	2.8

Thermal

Property	Method	Units	Specification
Melting Point	DSC	C°	343 – 355
Specific heat capacity	DSC	J/g	1,85 – 2,16
Thermal conductivity	DSC	W/mK	0,24 – 0,26
Maximum service temperature, Air	Internal Test	C°	+260/+310

Disclaimer. These figures are typical values for the material and do not represent a product specification. Properties will vary depending on source of raw material, method of processing, physical form of product, direction of measurement etc.