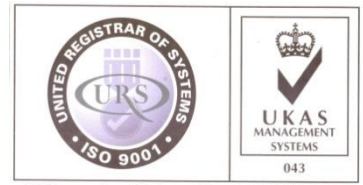




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Fluteck F100
Compression Moulded PerfluoroAlkoxy Resin

Material Specification
(Typical Properties)

Physical

Property	Method	Units	Specification
Specific Gravity	ASTM D792	g/cm ³	2,12 – 2,15
Water Absorption	ISO 62 (24hr immersion)	%	---
Linear mould shrinkage	ASTM D955	Cm/cm	2 – 3

Mechanical

Property	Method	Units	Specification
Elongation at Break	ASTM D 1708	%	200 – 250
Tensile strength at break	ASTM D 1708	MPa	25 – 35
Tensile modulus	ASTM D 1708	MPa	500 – 600
IZOD impact strength	ASTM D 256	J/m	No break
Hardness Shore	ASTM D 2240	Shore D	50 – 65
Hardness Rockwell	---	Rockwell M	---
Ball Hardness	ISO 2039-1 N358	N/mm ²	---

Electrical

Property	Method	Units	Specification
Volume resistivity	IEC 60093	Ohm cm	>10 ¹⁷
Surface resistance	IEC 60093	Ohm	>10 ¹⁷
Dielectric Strength	ASTM D 149	KV/mm	35 – 40
Relative permittivity	IEC 60250	1MHz	---

Thermal

Property	Method	Units	Specification
Melting point	DSC	°C	300 – 310
Specific heat capacity	DSC	J/g	25 – 35
Thermal conductivity	DSC	W/mK	0.2
Maximum service temperature, Air	Internal Test	°C	+230/+260
HDT	ASTM D648	°C	---

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.