

PRODUCT

fluteck[®] F100

(Compression moulded Perfluoro Alkoxy resin)

	Property	Method	Units	Specification
Physical	Specific gravity	ASTM D 792	g/cm ³	2,13-2,17
	Water absorption, 24 hours	ASTM D 570	%	<0.03
	Mold shrinkage, along flow	ASTM D 955	%	4-5
Mechanical	Elongation at break	ASTM D 638	%	≥250
	Tensile strength, at 23°C	ASTM D 638	MPa	≥23
	Tensile modulus, at 23°C	ASTM D 638	MPa	500-600
	Izod impact strength, notched	ASTM D 256	J/m	n/b
	Hardness Shore	ASTM D 2240	Shore D	50-65
Thermal	Melting Temperature	ASTM D3418	°C	300-310
	Specific heat, at 23°C	DSC	kJ kg ⁻¹ °C ⁻¹	0,9-1,1
	Thermal conductivity at 23°C	ASTM E1530	W/mK	0.20
	Continuous Use Temperature		°C	260
	Heat of fusion	DSC	J/g	25-35
	Oxygen Index,LOI	ASTM D2863	%	95
	Flammability	UL94	-	V-0
Electrical	Dielectric Strength, 1mm thick	ASTM D149	kV/mm	35-40
	Surface Resistivity	ASTM D257	Ohm	>10 ¹⁷
	Volume Resistivity	ASTM D257	Ohm*cm	>10 ¹⁷
	Arc resistance	ASTM D495	s	>200



fluteck® F100 – (Compression molding PFA)

General features:

- FDA compliant
- Low Thermal Conductivity
- Low Coefficient of Friction
- Low Permeability
- Good Dimensional Stability at high temperature;
- Very good Electrical Strength
- Good Hardness
- Excellent Chemical Resistance
- High Limiting Oxygen Index (LOI)
- Weathering and UV Stability
- Excellent Dielectric Properties
- Thermoprocessable

Note: The information contained in this technical data sheet are based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your own discretion. We can not guarantee favourable results and assume no liability in connection with its use or the use of the products described. None of this information is to be taken as a licence to operate under, or a recommendations to infringe any existing patents. Prior to any application the above product has to be tested and accepted by the processor.

In order to complete this data sheet, you can require us a DSC / TGA analysis and a microscope picture on our website <http://www.fluteck.com>

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® = registered trademark



Company Quality System UNI EN ISO 9001:2008 cert. CISQ/IIP N°061 first issue 1994

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