

PRODUCT

fluteck[®] C100

(Compression moulded Polychlorotrifluoroethylene)

	Property	Method	Units	Specification
Physical	Specific gravity	ASTM D 792	g/cm ³	2.10-2.16
	Water absorption, 24 hours	ASTM D 570	%	0,00
	Mold shrinkage, along flow	ASTM D 955	%	1.5-2
Mechanical	Elongation at break	ASTM D 638	%	30-200
	Tensile strength, 23°C	ASTM D 638	MPa	31-45
	Tensile modulus	ASTM D 638	GPa	1-1.6
	Izod impact strength, notched	ASTM D 256	J/m	≥ 75
	Hardness shore	ASTM D 2240	Shore D	70-80
	Deformation under load-7MPa 24h 25°C	ASTM D621	%	1
	Deformation under load-7MPa 24h 70°C	ASTM D621	%	2,5
	Deformation under load-7MPa 24h 125°C	ASTM D621	%	12
Thermal	Peak Melting Temperature	ASTM D3418	°C	210-212
	Specific heat capacity, at 23°C	DSC	kJ kg ⁻¹ °C ⁻¹	0,9
	Thermal conductivity, at 23°C	ASTM E1530	W/mK	0.35
	Maximum service temperature, Air	Internal test	°C	150°C
	Oxygen Index, LOI	ASTM D2863	%	>95
	Flammability	UL94	-	V-0
Electrical	Dielectric Strength - 1,60 mm thk	ASTM D149	kV/mm	21
	Dielectric Constant	ASTM D257	-	2.3
	Electrical resistivity	ASTM D257	Ohm-cm	10 ¹⁸



fluteck[®] C100 – (Compression molding PCTFE)

General features:

- FDA compliant
- Low Thermal Conductivity
- Low Coefficient of Friction
- Low Permeability
- Good Dimensional Stability at high temperature;
- Very good Electrical Strength
- Very good Hardness
- Very good Wear Resistance
- Suitable for cryogenic applications
- Excellent resistance to creep
- Excellent Chemical Resistance
- Does not absorb visible light
- Ionizing Radiation Resistance
- 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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