

PRODUCT

fluteck[®] F400

(Compression moulded Ethylene-TetraFluoroEthylene)

	Property	Method	Units	Specification
Physical	Specific gravity	ASTM D 792	g/cm ³	1,68-1,72
	Water absorption, 24 hours	ASTM D 570	%	0,007
	Mold shrinkage, along flow	ASTM D 955	%	3-4
Mechanical	Elongation at break	ASTM D 638	%	≥280
	Tensile strength, at 23°C	ASTM D 638	MPa	≥35
	Tensile modulus, at 23°C	ASTM D 638	GPa	1-1,2
	Izod impact strength, unnotched	ASTM D 256	J/m	n/b
	Deformation under load, 23°C, 7Mpa, 24h	ASTM D 621	%	0,3
	Hardness Shore	ASTM D 2240	Shore D	65-70
	Coefficient of friction	D1894	-	0.23
Thermal	Melting Temperature	ASTM D3418	°C	255-280
	Specific heat, at 25°C	DSC	kJ kg ⁻¹ °C ⁻¹	0,25
	Thermal conductivity, at 23°C	ASTM E1530	W/mK	0.24
	Continuous Use Temperature	Internal	°C	140-150
	Linear Coefficient of Expansion, 0-100°C	ASTM D696	10 ⁻⁵ / °C	12-13
	Oxygen Index, LOI	ASTM D2863	%	30-32
	Flammability	UL94	-	V-0
Electrical	Dielectric strength, 0.25mm thick	ASTM D149	kV/mm	60
	Surface resistivity	ASTM D257	Ohm	>10 ¹⁶
	Volume resistivity	ASTM D257	Ohm*cm	>10 ¹⁷
	Arc resistance	ASTM D495	s	120
	Dielectric constant, at 23°C-1MHz	ASTM D150	-	2.58



fluteck® F400– (Compression molding ETFE)

General features:

- FDA compliant
- Low Thermal Conductivity
- Low Surface Energy
- Very low Permeability
- Excellent Dielectric Properties
- High Tear propagation Resistance
- Broad Service Temperature Range (-190/+150°C)
- Very good weathering and UV stability
- Good Resistance to High Energy Radiation
- Very good Chemical Resistance
- High Transparency
- Steam sterilization compliant
- Non flammable
- 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>

Date: 10/2014

® = registered trademark



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

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