

PRODUCT

fluteck[®] F401

(Compression moulded Ethylene-TetraFluoroEthylene glass fibers reinforced)

	Property	Method	Units	Specification
Physical	Specific gravity	ASTM D 792	g/cm ³	1,78-1,88
	Water absorption	ASTM D 570 (24 hour)	%	0,008
	Mold shrinkage, along flow	ASTM D 955	%	-
Mechanical	Elongation at break	ASTM D 638	%	≥150
	Tensile strength, at 23°C	ASTM D 638	MPa	≥320
	Tensile modulus, at 23°C	ASTM D 638	GPa	-
	Izod impact strength (unnotched)	ASTM D 256	J/m	n/b
	Hardness Shore	ASTM D 2240	Shore D	≥65
	Ball hardness	ASTM D758	MPa	≥55
Thermal	Melting Temperature	ASTM D3418	°C	255-280
	Specific heat, at 25°C	DSC	kJ kg-1 °C-1	-
	Thermal conductivity at 23°C	ASTM E1530	W/mK	-
	Maximum service temperature, Air	Internal	°C	140-155
	Oxygen Index,LOI	ASTM D2863	%	30-32
Electrical	Dielectric strength, 0.25mm thick	ASTM D149	kV/mm	60
	Volume resistivity	ASTM D257	Ohm*cm	>10 ¹⁶
	Arc resistance	ASTM D495	s	-



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

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fluteck® F401 - (Compression molding ETFE glass fibres reinforced)

General features:

- FDA compliant
- Low Thermal Conductivity
- Very low Permeability
- Very good electrical strength
- Very good hardness
- Steam sterilization compliant
- 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



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