



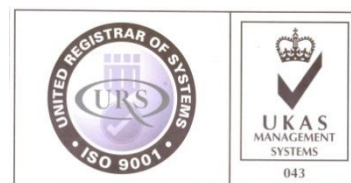
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**Fluteck F400
EthyleneTetraFluooEthylene**

**Material Specification
(Typical Properties)**

Physical

Property	Method	Units	Specification
Specific Gravity	ASTM D792	g/cm ³	1.68-1.70
Water Absorption	ASTM D 270 (24hr immersion)	%	0.007
Linear mould shrinkage	ASTM D 955	Cm/cm	---

Mechanical

Property	Method	Units	Specification
Elongation at Break	ISO 527-1	%	15 – 75
Tensile strength at break	ISO 527-1	N/mm ²	30 – 50
Tensile modulus	ISO 527-1	MPa	1200-1400
IZOD impact strength	ASTM D526-81	J/m	80
Hardness Shore	ISO 868	Shore D	70 – 80
Hardness Rockwell	---	Rockwell M	---
Ball Hardness	ISO 2038-1 N358	N/mm ²	---

Electrical

Property	Method	Units	Specification
Volume resistivity	ASTM D 257	Ohm cm	10 ¹⁷
Surface resistance	IEC 60093	Ohm	---
Dielectric Strength	ASTM D 150 (th. 0,25mm)	KV/mm	70
Relative permittivity	IEC 60250	1MHz	---

Thermal

Property	Method	Units	Specification
Melting point	DSC	°C	255 - 280
Specific heat capacity	DSC	J/g	---
Thermal conductivity	DSC	W/mK	---
Maximum service temperature, Air	Internal Test	°C	140 - 155
Limited Oxygen Index	ASTM D 2863	%	30 – 32

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.