

**Fluteck V100**  
**Compression Moulded Polyvinylidene Fluoride**

**Material Specification**  
**(Typical Properties)**

Physical

Property	Method	Units	Specification
Specific Gravity	ASTM D792	g/cm <sup>3</sup>	1,76 – 1,78
Water Absorption	ISO 62 (24hr immersion)	%	<0.04
Linear mould shrinkage	ASTM D955	Cm/cm	2 – 3

Mechanical

Property	Method	Units	Specification
Elongation at Break	ASTM D 638	%	20 – 30
Tensile strength at break	ASTM D 638	MPa	35 – 50
Tensile modulus	ASTM D 1708	MPa	2500
IZOD impact strength	ASTM D 256	J/m	100 – 110
Hardness Shore	ASTM D 2240	Shore D	75 – 80
Hardness Rockwell	---	Rockwell M	---
Ball Hardness	ISO 2039-1 N358	N/mm <sup>2</sup>	---

Electrical

Property	Method	Units	Specification
Volume resistivity	IEC 60093	Ohm cm	10 <sup>14</sup>
Surface resistance	IEC 60093	Ohm	10 <sup>14</sup>
Dielectric Strength	ASTM D 149	KV/mm	---
Relative permittivity	IEC 60250	1MHz	---

Thermal

Property	Method	Units	Specification
Melting point	DSC	°C	172 - 174
Specific heat capacity	DSC	J/g	66
Thermal conductivity	DSC	W/m-K	---
Maximum service temperature, Air	Internal Test	°C	150
HDT	ASTM D648	°C	113