



Fluteck C100
Polychlorotrifluoroethylene

Material Specification
(Typical Properties)

Physical

Property	Method	Units	Specification
Specific Gravity	ASTM D792	g/cm ³	2,110 – 2,160
Water Absorption	-	%	-
Linear mould shrinkage	-	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 resistance, notched(23°C)	ASTM D526-81	J/m	80
Hardness Shore	ISO 868	Shore D	70 – 80
Deformation under load 7MPa 24h	ASTM D621-81	%	1,0
Deformation under load 7MPa 24h	ASTM D621-81	%	2,5
Deformation under load 7MPa 24h	ASTM D621-81	%	12

Electrical

Property	Method	Units	Specification
Electrical resistivity	ASTM D257-78	Ohm cm	10 ¹⁸
Dielectric Strength	ASTM D149-75	KV/mm	21

Thermal

Property	Method	Units	Specification
Melting point	DSC	C°	---
Specific heat capacity	DSC	J/g	0,90
Thermal conductivity	DSC	W/mK	0,35
Maximum service temperature, Air	Internal Test	C°	+150

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.