

AF103 Glass Filled PTFE

Glass fibre is the most commonly used filler in PTFE. It gives much improved compression and wear properties. The material may also be inert gas sintered to further improve creep properties and reduce porosity and gas permeability. There would be a consequent loss of tensile properties.

Typical Physical properties

Property	Test Method	Value
Specific Gravity	ASTM D 4894	2.23 – 2.26 g/cm ³
Tensile Strength	ASTM D 4894	18 - 21 MPa
Elongation	ASTM D 4894	>180%
Shore D Hardness	BS EN 13000-2	60
Compressive Strength 1% deformation		>9 MPa
Compressive modulus	ASTM D695	758 MPa
Flexural Strength	ASTM D790	13.4 MPa
Flexural Modulus	ASTM D790	1310 MPa
Coefficient of Linear Thermal Expansion	ASTM D696	7.7-11.2 x10 ⁻⁵ °C (100°C)
Thermal Conductivity	C177	10.6 x 10 ⁻⁴ cal/cm-sec-°C
Temperature range		-200°C - +260°C

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All information is based on typical test results performed under specific conditions and limited sample size. This does not represent a legally binding guarantee of certain properties or the suitability for specific applications. All information is provided in good faith at time of print.

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