

**Material Specification
Sheet**e: sales@rhnutall.co.uk
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Adding glass to PTFE makes it stronger and more durable, as well as reducing flexibility and likelihood of creep. Glass filled PTFE can operate at the same temperature range as virgin PTFE and is similarly chemically inert. Increasing the Glass filler content, results in an increase in durability, and compressive strength. Optionally, glass filled PTFE can be inert gas sintered. This further reduces the material's tendency to creep as well as its porosity. Glass filled PTFE is more abrasive than Virgin PTFE, meaning that it can be abrasive to adjacent surfaces.

Property	Method	Units	Specification
Specific Gravity	ASTM D792	g/cc	2,230 – 2,260
Tensile Strength	ASTM D4894	MPa	13 – 18
Elongation	ASTM D4894	%	180 – 220
Hardness	ASTM D2240	Shore D	60 – 65
Deformation under load (140kg/cm ² for 24hrs at 23°C)	ASTM D695	%	10 – 12
Deformation under load (140kg/cm ² for 24hrs at 150°C)	ASTM D695	%	13 – 15
Permanent deformation (After 24hrs. Relaxation at 23°C)	ASTM D695	%	5 – 6
Permanent deformation at 150°C)	ASTM D695	%	8 – 10
Volume Resistivity	ASTM D257	Ohm cm	10 ¹⁵
Friction Coefficient	ASTM D1894	/	0.15 (Dynamic)
Water Absorption	ASTM D570	%	0.013
Service Temperature		°C	-200 / +260
Excellent resistance to continuous service temperature up to 260°C and for limited periods, even to higher temperatures. Low temperature resistance of the product allows satisfactory performance at -200°C			
Flammability	UL94	%	V-0
Melting Point		°C	325 - 335

FDA Approved

(Code of Federal regulation 21 CFR Ch.1, revised as of April 1, 1999 Edition)

Sections 175.105 – 175.300 – 176.170 – 176.180 – 177.1520 – 177.1550 – 177.2600 – 178.3570.

“Perfluorocarbon Resins” of the Food and Drug Administration/USA

The information given above is based upon average values and is no way intended as a warranty. The purchaser is deemed responsible for determining the suitability of the product for any application. All data relating to suitable uses and description information concerning our products are compiled from research and are believed to be reliable but are provided for guidance purposes only. The Company holds no legal or contractual responsibility for information supplied

