



**CUT TO SIZE
plastics**

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**TECHNICAL DATA SHEET
PTFE, TEFLON®, WEARFLON®**

Property	Method	Units	Specification
Specific gravity	ISO 13000-1	-	2,130 – 2,180
Tensile strenght	ISO 13000-1	MPa	25 - 35
Elongation	ISO 13000-1	%	250 - 350
Hardness	ISO 868	Shore D	54 – 60
Deformation under load	ASTM D695	%	10 – 13
(140 Kg/cm ² for 24 hrs. At 23° C)			
Permanent deformation	ASTM D695	%	6 – 7,5
(After 24 hrs. Relaxation at 23° C)			
Coefficient of static friction	ASTM D1894		0,08 – 0,10
Coefficient of dynamic friction	ASTM D1894		0,06 – 0,08
Thermal conductivity	ASTM C 177	W/m.K	0,24
Dielectric constant (e)	ASTM D150	/	2,1
at 60 Hz to 2GHz			
Dielectric Strength	ASTM D149	KV/mm	20 – 70
Volume Resistivity	ASTM D257	Ohm cm	10 ¹⁸
Flamability	UL 94	%	VE-0
Water absorption	ASTM D570	%	0,01

Service Temperature:

Excellent resistance to continuous service temperatures up to 260° C and, for limited periods, even to higher temperatures; the low temperature resistance of the product allows satisfactory performance at as low –200° C.

Chemical resistance:

PTFE possesses a high inertness towards nearly all known chemicals. It is only attacked by elemental alkali metals, chlorine trifluoride and elemental fluorine at high temperature and pressures.

Solvents resistance:

PTFE is insoluble in all solvents up to temperatures as high as 300° C (572° F). Certain highly fluorinated oils only swell and dissolve PTFE at temperatures close to the crystalline melting point.



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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.

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For the most recent technical data and free application advice, please call Cut To Size Plastics on: (02) 9681 0400

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