



MACHINIST OF PTFE COMPONENTS AND OTHER  
HIGH PERFORMANCE ENGINEERING PLASTICS

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## Material Specification Sheet

### PTFE BS EN 13000 – 1 2005

#### Mechanical Properties

Specific Gravity		2.15 g/cm <sup>3</sup>
Tensile Strength		26 / 30 MPa
Elongation @ Break		220 %
Hardness		53 Shore D
Coefficient of friction		0.10
Moisture Absorbion		0%

#### Thermal Properties

Maximum Working Temperature		+ 250°C
Minimum Working Temperature		- 150°C
Operating Temperature		- 150°C : + 250°C
Melting Temperature		+ 325°C

#### Characteristics

VPTFE :- Is the most chemically resistant thermoplastic polymer available.
It is inert to almost all chemicals and solvents, such as Acids, Alcohols, Alkalis Esters, Ketones, and Hydrocarbons.
A few substances are harmful notably Fluorine, Chlorine trifluorine, and molten Alkali metal solutions at high pressures
The only thing slicker than PTFE is Ice!

