



MACHINIST OF PTFE COMPONENTS AND OTHER
HIGH PERFORMANCE ENGINEERING PLASTICS

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Material Specification Sheet

PTFE + GRAPHITE 5-15%

Mechanical Properties

Specific Gravity		2.14g/cm ³
Tensile Strength		10 – 18 MPa
Elongation @ Break		150% – 250%
Hardness		56 – 64 Shore D
Coefficient of friction		0.07
Moisture Absorption		

Thermal Properties

Maximum Working Temperature		+ 225°C
Minimum Working Temperature		- 40°C
Operating Temperature		
Melting Temperature		

Characteristics

Good chemical resistance, and high compressive strength.
Lowest friction of all fills grades – close to PTFE. May run against mild surfaces.
For hydraulic systems with water or oil, and pneumatic systems.
Lubricated and non lubricated systems.
Unsuitable for sea water or electrical insulation situations.
Suitable up to 400 bar pressure.

