



MACHINIST OF PTFE COMPONENTS AND OTHER
HIGH PERFORMANCE ENGINEERING PLASTICS

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Material Specification Sheet

PTFE + 15% GLASS

Mechanical Properties

Specific Gravity		2.15 g/cm ³
Tensile Strength		15 MPa
Elongation @ Break		210%
Hardness		56 Shore D
Coefficient of friction		0.06
Moisture Absorbion		Surface absorbion (0.01%)

Thermal Properties

Maximum Working Temperature		+ 250°C
Minimum Working Temperature		- 150°C
Operating Temperature		- 150°C : + 250°C
Melting Temperature		Lower than VPTFE (325°C)

Characteristics

GLASS :- is the most common filler for PTFE. Typically used in hydraulic piston rings, giving good wear resistance, low creep, and good compressive strength.
Chemically inert similar to VPTFE
Less abrasive to mating surfaces in moving applications than 25% G/F

