



MACHINIST OF PTFE COMPONENTS AND OTHER
HIGH PERFORMANCE ENGINEERING PLASTICS

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Material Specification Sheet

PTFE + 25% CARBON

Mechanical Properties

Specific Gravity		2.06 / 2.11 g/cm ³
Tensile Strength		12 / 19 MPa
Elongation @ Break		175 %
Hardness		60 / 68 Shore D
Coefficient of friction		0.11
Moisture Absorbsion		Low

Thermal Properties

Maximum Working Temperature		250°C
Minimum Working Temperature		150°C
Operating Temperature		
Melting Temperature		325°C

Characteristics

CA/25 :- Good compression (low deformation under load) and wear resistance.
Good chemical resistance to corrosive situations.
Good thermal conductivity (heat dissipation)
Abrasive, but not as much as Glass fill
Used in Valve seats, Piston rings, Bushes, Bearings.

