

# PTFE: 25% GLASS FILLED

## SPECIFICATIONS SHEET

### DETAILS

**Chemical Name:** Polyoxy-methylene

**Abbreviation:** POM-H (Acetal Homopolymere) POM-C (Acetal Copolymer)

**Properties (Colour):** Natural (White), Black

**Properties (Form):** Rod, Plate

**Machining:** Excellent

**Types:** Glass Filled, Carbon Filled, PTFE Filled

**Chemical Resistance:** Acetals have good resistance to solvents and lubricants but are attacked by strong acids and alkalis.

### KEY BENEFITS

- Does not absorb moisture
- High mechanical strength and stiffness
- Suitable for use in wet environments
- Good dimensional stability

### MECHANICAL PROPERTIES

Specific Gravity Measured	2.1 - 2.3
Tensile Strength at Yield s (Mpa)	2,000 min
Elongation at Break %	200 - 250
Modulus (PSI)	2.39 x 10 <sup>5</sup>
Compressive Strength (PSI) 0.2% offset	1870
Flexural Strength (PSI)	606
Water Absorption (%)	0.013
Deformation at 78°F, 2000 PSI	7.1
24 hr. Permanent Deformation (%)	3.9
Coefficient of friction against Steel m	0.06 for loads >500 PSI static

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## THERMAL PROPERTIES

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Melting Point °C	330
Glass Transition Temperature °C	-20
Thermal Conductivity W/M°C	0.24

## ELECTRICAL PROPERTIES

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Dielectric Constant $\hat{f}$ 106 Hz	2.63
Volume Resistance W.cm	10/13
Dielectric Strength kV/mm	327

\*Whilst all care has been taken to provide accurate & up to date information, we cannot provide legal certification of properties. We recommend that this information be used as a design guide only. Actual testing should be undertaken to confirm data if certification is required.\*