

## AF803 Filled PEEK

**70% PEEK, 10% PTFE, 10% Carbon Fibre, 10% Graphite**

AF803 is a semi-crystalline very high performance engineering thermoplastic with optimised properties for demanding bearing and low friction applications.

- Very high thermal mechanical bearing strength
- Excellent low friction and sliding properties even without lubrication
- Excellent creep resistance
- Excellent radiation resistance
- High hardness and rigidity
- Good chemical resistance
- High maximum use temperature

### Typical Physical properties

Property	Test Method	Value
Specific Gravity	ISO 1183	1.48 g/cm <sup>3</sup>
Tensile Strength	ISO 527	131 MPa
Elongation	ISO 527	1.5%
Compressive Strength	ASTM D695	150 MPa
Coefficient of Friction		0.11
Max Continuous use Temperature		250 °C
Coefficient of Thermal Expansion	ASTM D696	2.2 x10 <sup>-5</sup> °C
Limiting PV at 20°C 30.5 M/Min		1084 M/Min

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Solutions and components in Fluoropolymer Plastics

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