

AF803 Filled PEEK

Bearing Grade PEEK Victrex 450FC30

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 ³
Tensile Strength	ISO 527	141 MPa
Elongation	ISO 527	2.2%
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 ⁻⁵ °C
Heat Deflection Temperature	1.8MPa ISO 75A-f	315 ^o C
Limiting PV at 20°C		794 Mpa m/min

Updated February 2020 AFT Fluorotec Technical Department
All information is based on typical test results performed under specific conditions and limited sample size. This does not represent a legally binding guarantee of certain properties or the suitability for specific applications. All information is provided in good faith at time of print.

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Temperature Data

Property	Temperature	Value
Flexural Modulus	250°C	3.00 Gpa
	120°C	8.00 Gpa
	23°C	8.10 Gpa
	-20 °C	8.31 Gpa
	-60 °C	8.27 Gpa
Flexural Strength	250°C	36 Mpa
	120°C	135 Mpa
	23 °C	210 Mpa
	-20 °C	220 Mpa
	-60 °C	241 Mpa
Tensile Break	250°C	25 Mpa
	23 °C	131.8 Mpa
	-20 °C	146.7 Mpa
	-60 °C	170.6 Mpa
Tensile Elongation	23 °C	2.55%
	-20 °C	3.51%
	-60 °C	3.68%

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