

AF804 Carbon Fibre filled PEEK

AF804 is a carbon fibre reinforced semi-crystalline very high performance engineering thermoplastic for extremely demanding applications.

- Very high thermal mechanical bearing strength
- Excellent creep resistance
- Excellent radiation resistance
- High hardness and rigidity
- Good chemical resistance
- High maximum use temperature
- Excellent wear resistance

Typical Physical properties

Property	Test Method	Value
Specific Gravity	ASTM D 792	1.44 g/cm ³
Tensile Strength	ISO 527	115 MPa
Elongation	ISO 527	8%
Hardness	Rockwell M	107M
Izod Impact Strength	ISO 180/A 23°C	Notched 10 KJ/m ²
	ISO 180/U 23°C	Un-notched 50 KJ/m ²
Max Continuous use Temperature		260 °C
Heat Deflection Temperature	ISO75A-f	336 °C (1.8MPa)
Coefficient of Thermal Expansion	ASTM D696	1.5 x10 ⁻⁵ °C
Colour		Black

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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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Low temperature Data

Property	Temperature	Value
Flexural Modulus	23 °C	20.19 Gpa
	-20 °C	22.02 Gpa
	-60 °C	18.81 Gpa
Flexural Strength	23 °C	355.9 Mpa
	-20 °C	403.8 Mpa
	-60 °C	360.7 Mpa
Tensile Break	23 °C	226.9 Mpa
	-20 °C	258.4 Mpa
	-60 °C	282.4 Mpa
Tensile Elongation	23 °C	2.79%
	-20 °C	3.48%
	-60 °C	4.3%

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