

AF802 30% Glass Fibre filled PEEK

AF802 is a glass 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

Typical Physical properties

Property	Test Method	Value
Specific Gravity	ISO 1183	1.49 g/cm ³
Tensile Strength	ISO 527	156 MPa (26600PSI)
Elongation	ISO 527	2.7%
Compressive Strength	ASTM D695	240 MPa (34800PSI)
Hardness	Rockwell R	124
Coefficient of Friction		0.34
Max Continuous use Temperature		260 °C
Coefficient of Thermal Expansion	ASTM D696	2 x10 ⁻⁵ °C
Heat Distortion Temperature		315°C
Dielectric Strength 1MM		25.4KV/MM

Issued March 2015 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.

AFT Fluorotec

Solutions and components in Fluoropolymer Plastics

Phone: +44 (0) 1992 515880

Fax: +44 (0) 1992 554490

Email: info@fluorotec.com

Website: www.fluorotec.com

Hertford Town Mill

Tamworth Road

Hertford

Herts. SG13 7DJ

AF802 30% Glass Fibre filled PEEK

Low temperature Data

Property	Temperature	Value
Flexural Modulus	23 ^o C	9.16 Gpa
	-20 ^o C	8.94 Gpa
	-60 ^o C	8.15 Gpa
Flexural Strength	23 ^o C	236.1 Mpa
	-20 ^o C	265.5 Mpa
	-60 ^o C	255.8 Mpa
Tensile Break	23 ^o C	171.7 Mpa
	-20 ^o C	199.2 Mpa
	-60 ^o C	225 Mpa
Tensile Elongation	23 ^o C	2.99%
	-20 ^o C	4.08%
	-60 ^o C	4.03%

Issued March 2015 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.

AFT Fluorotec

Solutions and components in Fluoropolymer Plastics

Phone: +44 (0) 1992 515880

Fax: +44 (0) 1992 554490

Email: info@fluorotec.com

Website: www.fluorotec.com

Hertford Town Mill

Tamworth Road

Hertford

Herts. SG13 7DJ