

AF802 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 |

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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.

AFT Fluorotec

Solutions and components in Fluoropolymer Plastics

Phone: +44 (0) 1992 515880

Email: info@fluorotec.com

Website: www.fluorotec.com

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Low temperature Data

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

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