

## AF801 VIRGIN PEEK

AF801 is a 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 527	1.32 g/cm <sup>3</sup>
Tensile Strength	ISO 527	110 MPa
Elongation	ISO 527	33%
Compressive Strength	ASTM D695	118 MPa
Flexural Modulus		4100 MPa
Hardness	Shore D	82 - 88
Coefficient of Friction		0.34
Max Continuous use Temperature		260 °C
Coefficient of Thermal Expansion	ASTM D696	5 x10 <sup>-5</sup> °C
Heat Distortion Temperature		150°C
Dielectric Strength 1MM		20KV/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](mailto:info@fluorotec.com)  
**Website:** [www.fluorotec.com](http://www.fluorotec.com)

Hertford Town Mill  
 Tamworth Road  
 Hertford  
 Herts. SG13 7DJ



## AF801 VIRGIN PEEK

### Low temperature Data

Property	Temperature	Value
Flexural Modulus	23 °C	4.18 Gpa
	-20 °C	4.25 Gpa
	-60 °C	3.97 Gpa
Flexural Strength	23 °C	162.7 Mpa
	-20 °C	189.6 Mpa
	-60 °C	180.6 Mpa
Tensile Yield	23 °C	103.4 Mpa
	-20 °C	123.9 Mpa
	-60 °C	142.7 Mpa
Tensile Break	23 °C	87.3 Mpa
	-20 °C	105.3 Mpa
	-60 °C	122.9 Mpa
Tensile Elongation	23 °C	17.22%
	-20 °C	14.8%
	-60 °C	12.27%

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](mailto:info@fluorotec.com)

**Website:** [www.fluorotec.com](http://www.fluorotec.com)

Hertford Town Mill  
Tamworth Road  
Hertford  
Herts. SG13 7DJ

