AF801 VIRGIN PEEK Victrex 450G

AF801 is a semi-crystalline very high-performance engineering thermoplastic for extremely demanding applications Using Victrex 450G

- 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^3
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 ^{O}C
Coefficient of Thermal Expansion	ASTM D696	5 x10^{-5} ^{O}C
Heat Distortion Temperature		150^{O}C
Dielectric Strength 1MM		20KV/MM
Water Absorption 23 ^{O}C		0.45%

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MADE WITH VICTREX PEEK POLYMER

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%

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