

AF825 low Temp PAEK

AF825 is a high-performance PAEK engineering thermoplastic for demanding low temperature applications. AF825 offers a lower static and dynamic coefficient of friction compared to PCTFE

- Lower Static/dynamic coefficient of friction compared to PCTFE
- Higher tensile strength with lower modulus compared to PCTFE
- Lower coefficient of thermal expansion compared to PCTFE
- Higher Thermal Conductivity compared to PCTFE

Typical Physical properties

Property	Test Method	Value
Specific Gravity	ISO 1183	1.40 g/cm ³
Tensile Strength +23°C	ISO 527	75 MPa
Tensile Strength -196°C		140 MPa
Tensile Elongation +23°C	ISO 527	41%
Tensile Elongation -196°C		4%
Compressive Strength -196°C	ISO 604	250 MPa
Compressive Modulus -196°C	ISO 604	5.4 GPa
Flexural Strength +23°C	ISO 178	132 MPa
Flexural Strength -196°C		359 MPa
Flexural Modulus +23°C	ISO 178	3.3 GPa
Flexural Modulus -196°C		5.0 GPa
Hardness	Shore D	80
Coefficient of Thermal Expansion +23°C	ISO 11359	48 ppm K ⁻¹
Coefficient of Thermal Expansion -165°C	DIN 51909	42 ppm K ⁻¹
Melting Point		343 °C
Glass Transition (T _g)	ISO 11357	143°C

Issued September 2022 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

Email: info@fluorotec.com

Website: www.fluorotec.com