

AF816 PEEK HT (Black)

PEEK HT Is a semi-crystalline very high performance engineering thermoplastic for demanding applications. Specifically developed for use at elevated temperatures and for prolonged use at elevated temperatures, AF816 retains its key physical properties to temperatures 30°C higher than standard AF801 Virgin PEEK. High thermal mechanical bearing strength. Good chemical resistance, creep resistance, radiation resistance and excellent electrical insulation properties.

Typical Physical properties

Property	Test Method	Value
Density	ISO 1183	1.32 g/cm ³
Tensile Strength at break 23°C	ISO 527	110 MPa (14500 PSI)
Tensile Strength at break 150°C		48 MPa (6962 PSI)
Tensile Strength at break 250°C		17 MPa (2466 PSI)
Tensile Elongation at break 23°C	ISO 527	20%
Flexural Strength 23°C	ISO 178	186 MPa (26830 PSI)
Flexural Modulus 23°C	ISO 178	4.1 GPa (594700 PSI)
Flexural Modulus 150°C		3.1 GPa (449600 PSI)
Compressive Strength	ASTM D695	137 MPa (19870 PSI)
Rockwell Hardness	ASTM D785	108.2
Melting Point		374 °C
Glass Transition Temperature		157 °C
Heat Distortion Temperature	ISO 75	165 °C
Maximum use Temperature		260 °C

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