

TYPICAL PROPERTIES OF PEEK VICTREX 450FC30

Property	Test Method	U.S. Units	SI Units
Mechanical Properties			
Tensile Strength @ 73°F/23°C	ISO 527-2/1B/50	19,420 psi	134 MPa
Tensile Strength @ 266°F/130°C	ISO 527-2/1B/50	11,900 psi	82 MPa
Tensile Strength @ 482°F/250°C	ISO 527-2/1B/50	5,700 psi	40 MPa
Tensile Modulus @ 73°F/23°C	ISO 527-2/1B/50	1,464,000 psi	10,100 MPa
Tensile Elongation at Break @ 73°F/23°C	ISO 527-2/1B/50	2.20%	2.20%
Flexural Strength @ 73°F/23°C	ISO 178	26,900 psi	186 MPa
Flexural Strength @ 250°F/120°C	ISO 178	19,575 psi	135 MPa
Flexural Strength @ 482°F/250°C	ISO 178	5,220 psi	36 MPa
Flexural Modulus @ 73°F/23°C	ISO 178	1,188,400 psi	8,200 MPa
Flexural Modulus @ 250°F/120°C	ISO 178	1,160,000 psi	8,000 MPa
Flexural Modulus @ 482°F/250°C	ISO 178	435,000 psi	3,000 MPa
Izod Impact, Notched @ 73°F/23°C	ISO 180/A	1.08 ft lb in ⁻¹	7.2 kJ m ⁻²
Izod Impact, Unnotched @ 73°F/23°C	ISO 180/U	4.8 ft lb in ⁻¹	32 kJ m ⁻²
Physical Properties			
Density	ISO 1183	-	1.44 g/cm ³
Thermal Properties			
CTE Below Tg	ASTM D696	1.2 x 10 ⁻⁵ °F ⁻¹	2.2 x 10 ⁻⁵ °C ⁻¹
Heat Deflection Temperature	ISO 75	560°F	293°C
Glass Transition (Tg)	DSC	289°F	143°C

For inquires or additional information, please call: 1 (281) 255-6855

© 2010 Drake Research Ltd.

Neither Drake Research Ltd. nor Drake Plastics Ltd. Company makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this information or its use. The user must determine the manner of use and whether any patents or trademarks are infringed.

Data courtesy of [Solvay Advanced Polymers](#).