

TYPICAL PROPERTIES OF PEEK 450FE20

Property	Test Method	U.S. Units	SI Units
Mechanical Properties			
Tensile Strength	ISO 527	11,300 psi	78 MPa
Tensile Modulus	ISO 527	421,000 psi	2,900 MPa
Tensile Elongation at Break	ISO 527	25%	25%
Flexural Strength	ISO 178	18,100 psi	125 MPa
Flexural Modulus	ISO 178	464,000 psi	3,200 MPa
Izod Impact, Notched	ISO 180/A	0.357 ft-lb/in ²	0.750 kJ/m ⁻²
Physical Properties			
Density	ISO 1183	0.0506 lb/in ³	1.40 g/cc
Electrical Properties			
Dielectric Strength	IEC 60243-1	533 kV/in	21.0 kV/mm
Dielectric Constant	IEC 60250	2.80	2.80
Dissipation Factor	IEC 60250	0.00400	0.00400
Thermal Properties			
CTE; Along flow below Tg	ISO 11359	22 °F @ ≤289°F	40 °C @ ≤143°C
CTE; Average below Tg	ISO 11359	33 °F @ ≤289°F	60 °C @ ≤143°C
CTE; Average above Tg	ISO 11359	72 °F @ ≥289°F	130 °C @ ≥143°C
Glass Transition Temp, Tg	ISO 11357	289°F	143°C

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

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