



## Technical Data Sheet

## PEEK

Mechanical	Condition	Test Method	Typical Value
Tensile Strength	Yield, 23°C	ISO 527	100 MPa
Tensile Elongation	Break, 23°C	ISO 527	40%
Flexural Strength	Yield, 23°C	ISO 178	170 MPa
Flexural Modulus	23°C	ISO 178	4.2 GPa
Compressive Strength	23°C	ISO 604	125 MPa
Charpy Impact Strength	Notched, 23°C	ISO 179	6 kJm <sup>-2</sup>
Izod Impact Strength	Notched, 23°C	ISO 180	6 kJm <sup>-2</sup>

Thermal Data			
Melting Point		ISO 11357	343°C
Glass Transition	Onset	ISO 11357	143°C
Coefficient Thermal Expansion	Along flow below	ISO 11359	45ppmK <sup>-1</sup>
Heat Deflection Temperature	1.8 MPa	ISO 75-f	152°C
Thermal Conductivity	Along flow, 23°C	ISO22007-4	0.29Wm <sup>-1</sup> K <sup>-1</sup>

Other			
Density	Crystalline	ISO 1183	1.30 Gcm <sup>-3</sup>
Shore D Hardness	Saturation, 23°C	ISO 868	85
Water Absorption by Immersion	23°C	ISO 62-1	0.40 %

