

PEEK Technical Data Sheet(TDS)

Mechanical Properties	Conditions	Methods	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	125MPa
Charpy Impact Strength	Notched,23°C	ISO 179	$6kJm^{-2}$
Izod Impact Strength	Notched,23°C	ISO 180	$6kJm^{-2}$

Thermal Data

Melting Point		ISO 11357	343°C
Glass Transition	Onset	ISO 11357	143°C
Coefficient of Thermal Expansion	Along flow below	ISO 11359	$45ppmK^{-1}$
Heat Deflection Temperature	1.8Mpa	ISO 75-f	152°C
Thermal Conductivity	Along flow, 23°C	ISO22007-4	$0.29Wm^{-1} K^{-1}$

Other

Density	Crystalline	ISO 1183	$1.30Gcm^{-3}$
Shore D Hardness	Saturation, 23°C	ISO 868	85
Water Absorption by Immersion	23°C	ISO 62-1	0.40%

Updated on November 11, 2022