

# PEEK DATA SHEET

**PEEK** is a high performance thermoplastic, PolyEtherEtherKetone (PEEK). It is semi crystalline, FDA food contact compliant. It offers high strength and stiffness as well as high heat resistance. Also, chemically resistant to aggressive environments.

PHYSICAL PROPERTIES	TEST METHOD	UNITS	TYPICAL VALUE
Density	ISO 1183, Crystalline	g/cm <sup>3</sup>	1.30
Glass transition temperature	ISO 11357	°C	143
Melting Point	ISO 11357	°C	343
Heat Deflection Temperature	ISO 75-f, 1.8 MPa	°C	152
Thermal Conductivity	ISO 22007-4, 23°C	W m <sup>-1</sup> K <sup>-1</sup>	0.29
Melt index	ISO 1133, 380°C, 5 kg	g/10min	10
Shore D Hardness	ISO 868, 23°C	-	85
Water Absorption by immersion (3.2mm thick Tensile Bar)	ISO 62-1, 24h, 23°C	%	0.07
	Equilibrium, 23°C	%	0.4
Odor	-	-	Almost odorless

MECHANICAL PROPERTIES	TEST METHOD	UNITS	TYPICAL VALUE
Tensile strength	ISO 527	MPa	98
Young's modulus	ISO 527	MPa	3738
Elongation at break	ISO 527	%	9.1
Bending strength	ISO 178	MPa	147.0
Bending modulus	ISO 178	MPa	3612
Impact strength	ISO 179	kJ/m <sup>2</sup>	7.1

## Disclaimer

The typical values presented in this document are intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values may vary significantly with printing conditions. End-use performance of printed parts properties can be impact by, but not limited to, part design, environmental conditions, printing conditions, etc. Product specifications are subject to change without notice.

Each user is responsible for determining the safety, lawfulness, technical suitability, and disposal/recycling practices of PEEK materials for the intended application. We make no warranty of any kind, unless announced separately, to the fitness for any particular use or application. We shall not be made liable for any damage, injury or loss induced from the use of materials in any particular application.