

	PEEK 5100
Material introduction	3D printed PEEK materials are of particular interest to the medical sector, offering biocompatibility and sterilizability for the manufacture of custom implants. The aerospace and automotive sectors are also common markets for 3D printed PEEK materials, which are suitable for the manufacture of parts with higher wear and temperature resistance.
Density	1.23g/cm <sup>3</sup>
Heat deflection temperature	(ISO 78-1-2020 0.45MPa, 1.82MPa): 280°C, 155°C
Elongation at break	
Tensile Modulus	(ISO 527-1-2019): 3.5GPa
Tensile strength	(ISO 527-1-2019): 78MPa
Flexural Modulus	
Flexural Strength	
Bending strength	
Notch impact strength	
Unnotched impact strength	
Izod Impact Test with Notch	
Izod Impact Test without Notch	
Tensile elongation at break	(ISO-527-2018): 2.5%
Melting point	343°C
Dielectric constant	
Tolerance	±300 μm or ±0.3%
Other properties	Chemical resistance, oil resistance and high temperature thermal stability