PEEK CNC

PEEK CNC Machined

High-quality, high-performance material. A technologically advanced semi-crystalline thermoplastic with very high mechanical properties and high temperature resistance, it offers excellent mechanical and chemical resistance and dimensional stability. The machining of PEEK parts with CNC milling reduces its morphological characteristics, but improves performance.

Material properties

Density	ISO 1183	**1,31**	g/cm³
Water absorption at saturation	ISO 62	**0,20**	%
Hygroscopicity	ISO 62	**0,45**	%
Tensile strength	ISO 527	**96**	MPa
Elongation at break	ISO 527	**20**	%
Yield strength	ISO 527	**110**	MPa
Elastic modulus	ISO 527	**4400**	MPa
Flexural strength	ISO EN 178	**165**	MPa
Resilience	ISO 179	**No break**	kJ/m²
Hardness	ISO 868	**81 D**	Shore
HDT 0.45 MPa	ISO 75	**155**	°C
HDT 1.8 MPa	ISO 75	**160**	°C
Vicat softening temperature	ISO 306	**146**	°C
Melting temperature	ISO 11357	**255**	°C
Flammability	UL94	**V-0**	

Maximum dimensions
500x450x55 mm (19.6x17.7x2.2 in)

Tolerances
ISO 2768-1 fine (f) or medium (m) class

Applications
It finds its applications in the food, aerospace, automotive, chemical, electronics, nuclear and medical fields.

Thermal conductivity (20°C)	DIN 52612	**0,25**	W/mK
Volumic electrical resistivity	IEC 60093	**10^13**	Ω*m