

PEEK Carbon Fiber

PEEK CF, Carbon PEEK

PEEK CF has the highest mechanical properties among the materials achievable with Additive Manufacturing, allowing it to be applied in Metal Replacement practices in more extreme contexts and environments.



Material properties

Density	ISO 1183	1,34	g/cm ³
Water absorption at saturation	ISO 62	0,4	%
Tensile strength	ISO 527	87,4	MPa
Elongation at break	ISO 527	3,9	%
Elastic modulus	ISO 527	7900	MPa
Flexural strength	ISO 178	168,6	MPa
Resilience	ISO 179	66	kJ/m ²
Hardness	ISO 868	86 D	Shore
HDT 0.45 MPa	ISO 75	162	°C
HDT 1.8 MPa	ISO 75	315	°C
Melting temperature	ISO 11357	343	°C
Flammability	UL94	V-0	
Thermal conductivity (20°C)	ISO 22007	0,95	W/mK

Printing layer height	0,15 mm (0,006 in)
Maximum dimensions	300x300x300 mm (11.8x11.8x11.8 in)
Infill	30%
Shell thickness	1,8 mm (0,07 in)
Tolerances	± 0,60mm < 100mm / ± 0,6% > 100mm
Applications	The material has the highest mechanical properties among those achievable with Additive Manufacturing using plastics, allowing it to be applied in Metal Replacement practices in the most extreme contexts and environments.

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