

PEEK Glass Filled

PEEK GF

PEEK (Polyetheretherketone) glass-filled is a strong, lightweight composite with excellent chemical and thermal resistance. It is widely used in electric, aerospace, and automotive applications, offering superior strength and stiffness.



Material properties

Density	ISO 1183	1,35	g/cm ³
Water absorption at saturation	ISO 62	0,4	%
Tensile strength	ISO 527	86,6	MPa
Elongation at break	ISO 527	2,5	%
Elastic modulus	ISO 527	7200	MPa
Flexural strength	ISO 178	158,7	MPa
Hardness	ISO 868	86 D	Shore
HDT 1.8 MPa	ISO 75	315	°C
Melting temperature	ISO 11357	343	°C
Flammability	UL94	V-0	
Thermal conductivity (20°C)	ISO 22007	0,3	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

It is widely used for the production of electrical components, in aerospace and automotive applications due to its good mechanical properties combined with excellent chemical and thermal resistance.

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