

PPS Glass Filled

Glass Filled Polyphenylene sulfide

PPS GF (glass-filled polyphenylene sulphide) is a composite material that combines the outstanding properties of PPS together with the reinforcing effects of glass fibres. This high-performance thermoplastic offers higher mechanical strength, better dimensional stability and greater wear resistance than unfilled PPS.



Material properties

Density	ISO 1183	1,65	g/cm ³
Water absorption at saturation	ISO 62	0,05	%
Tensile strength	ISO 527	126	MPa
Elongation at break	ISO 527	1,4	%
Elastic modulus	ISO 527	11000	MPa
Resilience	ISO 179	30	kJ/m ²
HDT 1.8 MPa	ISO 75	270	°C

Printing layer height

0,15 mm (0,006 in)

Maximum dimensions

300x300x400 mm (11.8x11.8x15.7 in)

Tolerances

± 0,60mm < 100mm / ± 0,75% >
100mm

Applications

A material loaded with 25% glass fibres, its tensile strength, hardness, resistance to chemicals and dimensional stability in wet environments make it widely used in the shipbuilding industry.

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