



Material: PEEK Glass Filled 30%

30% glass fibre reinforced grade offers a higher stiffness and creep resistance than PEEK 1000 and has much better dimensional stability. Ideal for structural applications supporting high static loads for long periods of time at elevated temperatures.

Technical Specification

Property	Test Method	Units	Value
Colour	-	-	Brown/Grey
Density	ISO 1183	g/cm ³	1.51
Water Absorption - saturation in air (23°C/50%RH)	-	%	0.14
Water Absorption - saturation in water (23°C)	-	%	0.30
Tensile strength* ¹	ISO 527	N/mm ²	90
Tensile modulus of elasticity* ¹	ISO 527	N/mm ²	6300
Elongation at break* ¹	ISO 527	%	5
Impact - Charpy* ¹	179/1eU	kJ/m ²	35
Impact – Charpy notched* ¹	180/2A	kJ/m ²	4
Hardness	Rockwell Shore D	-	M99
Melt Point	-	°C	340
Max service temp in air short periods	-	°C	310
Max service temp continuously for 20000hrs	-	°C	250
Linear thermal expansion coefficient	-	K ⁻¹ x10 ⁻⁵	3.0
Thermal Conductivity	-	W/(K.m)	0.43
Flammability (3mm thickness)	-	-	V-0
Volume resistivity* ¹	IEC93	Ohm.cm	10 ¹⁵
Dielectric strength* ¹	IEC243	Kv/mm	24
Outside applications – UV resistance	-	-	A
Acids – strong (Ph<3)	-	-	A
Alkalis – strong (pH>11)	-	-	A
Chlorinated Hydrocarbons	-	-	A
Hot Water	-	-	A
‘A’ – Acceptable service, ‘B’ – Limited, ‘C’ – Unacceptable			
* ¹ Measured on dry test specimens (where applicable)			

Availability:

Rod, 500mm, 1m & 3m long – 6-100mm diameter

Plate, 500mm, 1m & 3m long x 525mm wide – 5-8mm thickness

Plate, 500mm & 1m long x 305 & 625mm wide – 10-60mm thickness

Plate, 3m long x 305 & 625mm wide – 10-25mm thickness

Tube, 1m & 3m long, 50–200mm od x 30–160mm id.

Applications:

Bearings, Valve Seats, Pump Components, Rollers, Gears, High Temp Insulation, Components in boiling water or steam

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The data shown are typical values and are not intended to represent specifications. Their aim is to guide the user toward a material choice.

Not all material sizes shown within the availability programme of this data sheet are available as standard.

Please contact ABG Rubber and Plastics Ltd for further details.