INTAMSYS® PEEK-GF

Product Description

INTAMSYS® PEEK-GF is a high performance thermoplastic, **P**oly**E**ther**E**ther**K**etone (PEEK), reinforced with **G**lass**F**iber. It offers high stiffness and high heat resistance.

PHYSICAL PROPERTIES	TEST METHOD	UNITS	TYPICAL VALUE
Density	ISO 1183，Crystalline	g/cm^3	1.35
Glass transition temperature	ISO 11357	°C	143
Melting Point	ISO 11357	°C	343
Heat Deflection Temperature	ISO 75-f, 1.8 MPa	°C	315
Thermal Conductivity	ISO 22007-4, 23°C	$W\ m^{-1}\ K^{-1}$	0.3
Melt index	ISO 1133, 380°C, 5 kg	g/10min	12
Shore D Hardness	ISO 868, 23°C	-	86
Water Absorption by immersion (3.2mm thick Tensile Bar)	ISO 62-1, 24h, 23°C	%	0.05
	Equilibrium, 23°C	%	0.4

MECHANICAL PROPERTIES[1]	TEST METHOD	UNITS	TYPICAL VALUE
Tensile strength	ISO 527	MPa	86.6
Flexural strength	ISO 178	MPa	158.7
Flexural modulus	ISO 178	MPa	5713
Impact strength	ISO 179, Notched	kJ/m^2	8.9

Note:

1. All testing specimens were printed using a FUNMAT HT 3D PRINTER under the following conditions: Printing temperature = 410 °C, printing speed = 45 mm/s, number of shells = 2, and 100% infill. All specimens were annealed at 200 °C for 2h prior to testing.

For further details, please contact info@intamsys.com