INTAMSYS® PPSU

Product Description

INTAMSYS® PPSU is an amorphous high performance thermoplastic, **P**oly**P**heny**SU**lfone, which offers good impact resistance and chemical resistance. PPSU can operate in temperatures up to 180°C. PPSU has superior hydrolysis resistance when compared to other amorphous thermoplastics as measured by steam autoclaving cycles, it has virtually unlimited steam sterilizability. It also resists common acids and bases over a broad temperature range. Applications are: Aerospace, Aircraft, Automotive, Dental, Medical, Surgical instruments.

PHYSICAL PROPERTIES	TEST METHOD	UNITS	TYPICAL VALUE
Density	ISO 1183	g/cm^3	1.29
Glass transition temperature	DSC, 10°C /min	°C	220
Heat Deflection Temperature	ISO 75	°C	198

MECHANICAL PROPERTIES[1]	TEST METHOD	UNITS	TYPICAL VALUE
Tensile strength	ISO 527	MPa	68.4
Flexural strength	ISO 178	MPa	124.5
Flexural modulus	ISO 178	MPa	3114
Impact strength	ISO 179, Notched	kJ/m^2	21.8

Note:

1. All testing specimens were printed using a FUNMAT HT 3D PRINTER under the following conditions: Printing temperature = 390 °C, printing speed = 45 mm/s, number of shells = 2, and 100% infill.

For further details, please contact info@intamsys.com