

淡 PPSU

PPSU (Polyphenylsulfone) shows even better results in impact resistance and chemical resistance than PEI. It can operate in temperatures up to 180°C. This makes it an excellent choice for under-hood automotive applications and medical devices requiring repeated steam sterilization. The hydrolysis resistance is excellent compared to other amorphous thermoplastics. Besides that, it also resists common acids and bases over a broad range of temperatures.

Material features:

- High strength and toughness
- Flame retardant
- Excellent chemical and thermal resistance
- Good hydrolysis resistance
- Heat resistance up to 220°C

Colours:

PPSU is available in 1 colour.

NA1

Packaging:

PPSU is available on our standard transparent reel.* Ask our team to help you customizing your product. *Dry +4 hours at max.110°C



Filament specs.		
Size	Ø tolerance	Roundness
1,75mm	± 0,05mm	≥ 95%
2,85mm	± 0,10mm	≥ 95%

Material properties		
Description	Testmethod	Typical value
Specific gravity	ASTM D792	1.29 g/cm ³
MVR 365°C/5kg	ASTM D1238	14-20g/10min
Tensile strength at Yield	ISO 527	77 MPa
Tensile strength at Break	ISO 527	77 MPa
Elongation-strain at Break	ISO 527	60-120%
Elongation-strain at Yield	ISO 527	7.3%
Tensile modulus	ISO 527	2410 MPa
Flexural strength	ISO 178	108 MPa
Flexural modulus	ISO 178	2380 Mpa
Flame retardancy	UL94	V-0
Impact strength, Izod method 23°C notched	ISO 180	56.2 kJ/m²
Heat deflection temp.	ASTM D648	207°C
Printing temp.	Internal Method	380±20°C

Additional info:

Recommended temperature for heated bed is >140°C. Adhesion is possible on different surfaces. PPSU can be used on desktop FDM or FFF technology 3D printers able to reach the high required temperatures.

Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.