

Polyphenylene Sulfide

ASPEX-PPS

ASPEX-PPS + GB

ASPEX-PPS + CF

ASPEX-PPS + GF

Glass beads

Carbon fiber

Glass fiber

A powdered material made of polyphenylene sulfide, a high-performance engineering plastic. It is flame-resistant and has passed outgassing tests, making it ideal for aerospace products. It is characterized by a high melting point (280° C), high strength, high rigidity, and fatigue resistance, and also excels in dimensional stability. **ASPEX-PPS+CF** is the lightest material and is also used as an alternative to aluminum.

● Key Characteristics

ASPEX-PPS is a material characterized by a high melting point (280° C) and flame resistance. It possesses high strength, high rigidity, and fatigue resistance. Additionally, it has excellent water and chemical resistance, remaining unaffected by many solvents, acids, and alkalis. Due to its low water absorption, it maintains its physical properties even in high-humidity environments and excels in dimensional stability. It is also known for its excellent electrical properties.

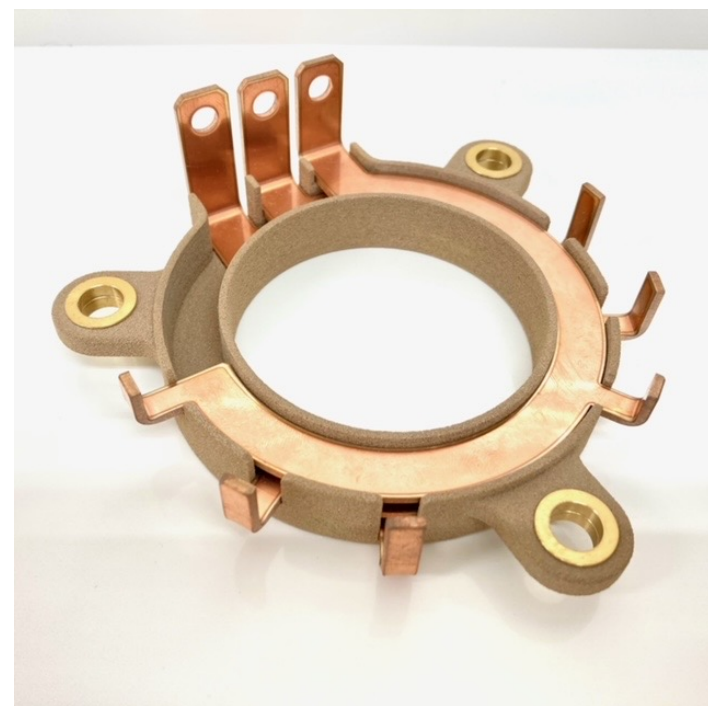
PPS+GB has excellent long-term heat resistance and retains superior physical properties even under high temperatures and humidity.

PPS+GF has high flexural strength and excellent airtightness.

High chemical resistance/High heat resistance/Insulation/Flame resistance/Mechanical strength

● Applications

**Aerospace related parts
Automotive parts,
Electrical · Electronic, OA,
Housing components etc.**



● Material properties

Physical properties	PPS	PPSGB	PPSCF	PPSGF
Maximum Tensile Stress	43MPa	35MPa	71MPa	65MPa
Tensile modulus	3600MPa	7000MPa	6330MPa	5850MPa
Elongation at break	1.3%	0.6%	1.4%	1.2%

The listed data is subject to change without prior notice.

