PSU

PSU CNC Machining Applications & PartsPolysulfone offers high thermal stability, transparency, and outstanding hydrolytic resistance, making it a superior choice for medical, food, and aerospace applications requiring repeated steam sterilization.Typical Parts We Machine from PSU: Medical Devices: Surgical Instrument Trays, Filter Housings, Fluid Handling Parts Food Service & Processing: Steamable Equipment Parts, Coffee Makers, Filter Blocks High-Temperature Electrical: Multipin Co

Mechanical properties

Ultimate tensile strength	50 - 90 MPa
Yield strength	47 - 90 MPa
Young's modulus (modulus of elasticity)	2 - 3 GPa
Elongation at break	20 - 300 %
Hardness	80 - 96 HRM

Physical properties

UV resistance	Poor

Thermal properties

Maximum service temperature	60 - 115 °C
Thermal expansion coefficent	40 - 60 10^-6/ºC
Thermal conductivity	0.15 - 0.28 W/(m·°C)

Electrical properties

ESD Safety	No

Common applications

Mechanical engineering	
Electrical and electronics industry	
Medical industry	

Shipbuilding industry	

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Typical Parts We Machine from PSU:

- **Medical Devices:** Surgical Instrument Trays, Filter Housings, Fluid Handling Parts
- **Food Service & Processing:** Steamable Equipment Parts, Coffee Makers, Filter Blocks
- **High-Temperature Electrical:** Multipin Connectors, Fuse Housings, Light Sockets

Our Machining Advantage:

We machine PSU with techniques that preserve its amber clarity and prevent stress cracking, producing robust, sterilizable components that meet stringent industry standards.

Get an Instant Quote for your custom Polysulfone parts today.