

# PSU (Polysulfone)

## Key Features

Stiffness • Chemical resistance •  
Transparency • Heat resistance > 100°C

## Applications

End-use parts • Automotive • Electronics •  
Healthcare • Consumer goods

## Product Description

PSU is a high-performance polysulfone resin known for its high thermal stability, excellent mechanical strength, and chemical resistance. This transparent material is widely used in the automotive industry for lighting components and sensor housings, electrical and electronics for connectors and insulators, medical devices and laboratory equipment, durable consumer goods like kitchenware and water filtration systems, and industrial applications requiring membranes and high-temperature housings.

## Properties

Tensile modulus	2,550 MPa
Tensile stress at yield	75 MPa
Tensile strain at yield	5.7%
Notched Izod Impact (23°C)	6 kJ/m <sup>2</sup>
Heat deflection temperature	177°C
Volume resistivity (Ohm)	>1E13
Surface resistivity (Ohm-m)	>1E15
Density	1.23 g/cm <sup>3</sup>
Coefficient of linear thermal expansion	0.53 X10-4

\*Based on material Ultrason® S 6010

## Reference

For more detailed source information, please consult the original document linked [here](#). We encourage users to verify the data's relevance and suitability for their specific needs.

