

# POLYSULFONE

SUSTATRON® PSU / TECASON™ S



Polysulfone is a high temperature, amber colored, semi-transparent plastic material with good mechanical properties. Polysulfone is resistant to degradation from hot water and steam and it is often used in medical and food preparation applications where repeated sterilization is required.

Polysulfone can be used as an alternative to polycarbonate or acrylic for applications requiring high temperature performance or exposure to hot water and steam.



## KEY CHARACTERISTICS:

- Semi-transparent
- Resists hydrolysis when exposed to hot water or steam
- Strong and stiff
- Can be used at higher temperatures than acrylic or polycarbonate
- Thermoformable
- FDA compliant grades available

## APPLICATIONS:

- Medical instrument components
- Manifolds
- Medical trays
- Autoclavable instruments and trays

## POLYSULFONE TYPICAL PROPERTIES:

	UNITS	ASTM TEST	POLYSULFONE
Tensile strength	psi	D-638	10,200
Flexural modulus	psi	D-790	390,000
Izod impact (notched)	ft-lbs/in of notch	D-256	1.3
Heat deflection temperature @264 psi	°F	D-648	345
Maximum continuous service temperature in air	°F		285
Water absorption (immersion 24 hours)	%	D-570	0.30
Coefficient of linear thermal expansion	in/in/°F x 10 <sup>-5</sup>	D-696	3.1

**Standard Sizes: SHEET: 24"x48" (0.25"-4.0" thick) ROD: diameter 0.375"-4.0" TUBE: call for availability**

Length, width, thickness, and diameter tolerances vary by size and by manufacturer • Custom sizes and colors available upon request • Many of our materials are available as films with thicknesses of 0.029" or less. Values may vary according to brand name. Please ask your Curbell Plastics representative for more specific information about an individual brand.

**Curbell Plastics has been supplying plastic sheet, rod, tube, films, adhesives, sealants, and prototyping materials for over 65 years**



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