

RÖCHLING datasheet

SUSTASON | 2009

SUSTASON PSU

SUSTASON PSU (Polysulfone) is a semi-transparent amorphous thermoplastic with an amber tint. It is a logical progression from standard transparent plastics such as polycarbonate when improved chemical or higher temperature resistance is required by the application. **SUSTASON PSU** can be used continuously in hot water and steam sterilization and has excellent chemical resistance to acidic salt solutions.

Product Features:

- ⇒ Excellent electrical properties
- ⇒ Autoclavable
- ⇒ Water, food and medical compliance
- ⇒ Stiffness, strength and dimensional stability
- ⇒ Continuous use temperature of 300°F
- ⇒ Maintains its properties over a wide temperature range
- ⇒ FDA compliant
- ⇒ Heat deflection temperature of 345°F

Typical Properties of Stock Shapes

Property	Units	Test Method	Value Natural
Specific Gravity	-	ASTM D 792	1.24
Water Absorption 24 hrs	%	ASTM D 570	0.3
Water Absorption Saturation	%	ASTM D 570	0.6
Flammability	-	UL 94	V-0
Tensile Strength	psi	ASTM D 638	10,200
Elongation	%	ASTM D 638	30
Modulus	psi	ASTM D 638	360,000
Flexural Strength	psi	ASTM D 790	15,400
Modulus	psi	ASTM D 790	390,000
Notched Izod	ft-lb/in	ASTM D 256	1.3
Rockwell Hardness	-	ASTM D 785	M75
HDT @ 264 psi	°F	ASTM D 648	345
Coefficient Linear thermal expansion	in/in/°F	ASTM D 696	3.1 x 10 ⁻⁵
Dielectric Strength	V / mil	ASTM D 149	425
Volume Resistivity	ohm-cm	ASTM D 257	5.0 x 10 ¹⁶
Dielectric Constant	-	ASTM D 150	3.06

Typical Applications

- ⇒ Electrical/electric components
- ⇒ Medical devices
- ⇒ Manifolds
- ⇒ Valves
- ⇒ Industrial parts

Certifications

- ⇒ ASTM D6394 SP 0111
- ⇒ MIL-P-46120B Type 1 Class 1
- ⇒ FDA, USDA, 3A dairy & NSF compliant
- ⇒ FDA 21 CFR 177.1630



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