

ISO 9001:2000 Certified

TECASON [™]S

TECASON™S is a transparent engineering plastic known for its chemical resistance, rigidity, high-tempera-

ture performance, and its ability to operate in an autoclave environment. TECASON™S is FDA and NSF compliant and holds its excellent mechanical properties over a wide range of temperatures.

• Autoclave resistance

TECASON[™]Smaintains dimensional stability and mechanical performance through repeated autoclaves.

- Excellent electrical properties
- Good chemical resistance TECASON™Sperforms well in mineral acids, alkali, salt solutions, and hydrocarbons.
- Superior resistance to creep
- FDA and NSF compliant
- High-temperature performance TECASON[™]Shas a heat deflection temperature of 345°F and a long-term continuous use temperature of 285°F.
- Excellent hydrolytic stability
- High strength and rigidity
- Flame retardant TECASON™Sis rated UL94 V-O

TECASON[™]S' unique combination of chemical and hydrolytic resistance, hightemperature performance, good mechanical properties, and agency approvals make it an excellent choice for applications in the pharmaceutical, medical, food service equipment, semiconductor processing, and electronic equipment industries.

TYPICAL PROPERTY VALUES

	PROPERTIES	ASTM Test Method	Units	TECASON™S
HNSICA	Density Specific Gravity Water Absorption, @24 hours, 73°F	D792 D792 D570	lbs/in³ - %	0.045 1.24 0.30
MECHANICA	Tensile Strength @ Break, 73°F Tensile Modulus, 73°F Elongation @ Break, 73°F Flexural Strength, 73°F Flexural Modulus, 73°F Izod Impact Strength, Notched, 73°F Rockwell Hardness Coefficient of Friction, 40 psi, 50 fpm	D638 D638 D638 D790 D790 D256 D785	psi psi % psi ft-lbs/in "R" Scale Dynamic	$\begin{array}{c} 10,200\\ 3.6\times10^{5}\\ 50-100\\ 15,400\\ 390,000\\ 1.3\\ 120\\ 0.37\end{array}$
THERM A	Deflection Temperature @ 66 psi @ 264 psi Maximum Temperature, Long Term Short Term Coefficient of Linear Thermal Expansion	D648 D648 - - D696	°F °F °F in/in/°F	358 345 285 340 3.1 x 10 ⁻⁵
ELECTRICA	Dielectric Strength Dielectric Constant, @ 60 Hz, 73°F, 50% RH Dissipation Factor, @ 60 HZ, 73°F Volume Resistivity, 73°F	D149 D150 D150 D257	V/mil - ohm-cm	425 3.1 0.001 5 x 10 ¹⁶

MATERIAL AVAILABILITY

Rods: Diameters:3/16" to 5" Length: 3/16" to 4-3/4" – 10' 5" – 5' Plates: 1/4" to 4" thickness inclusive are 2' x 4'

Primary Specification (Resin) (Typical) ASTM-D-6394SPO112

Profiles, tubes, and special sizes are custom-produced on request.



Corporate Headquarters

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