

TECASON™ S

Polysulfone

Ensinger Inc.

Message:

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

General Information			
Features	Flame Retardant		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Electrical Properties		
	High Clarity		
	High Heat Resistance		
	High Rigidity		
	High Strength		
	Hydrolytically Stable		
Uses	Electrical/Electronic Applications		
	Food Service Applications		
	Medical/Healthcare Applications		
	Pharmaceuticals		
Agency Ratings	FDA Unspecified Rating		
	NSF Unspecified Rating		
Appearance	Clear/Transparent		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2480	MPa	ASTM D638
Tensile Strength (Break, 23°C)	70.3	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	50 to 100	%	ASTM D638

Flexural Modulus (23°C)	2690	MPa	ASTM D790
Flexural Strength (23°C)	106	MPa	ASTM D790
Coefficient of Friction ¹ (vs. Itself - Dynamic)	0.37		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	181	°C	
1.8 MPa, Unannealed	174	°C	
CLTE - Flow	5.6E-5	cm/cm/°C	ASTM D696
Maximum Service Temperature			
Long Term	141	°C	
Short Term	171	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	5.0E+16	ohms·cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant ² (23°C, 60 Hz)	3.10		ASTM D150
Dissipation Factor (23°C, 60 Hz)	1.0E-3		ASTM D150
NOTE			
1.	40 psi, 50 fpm		
2.	50% RH		

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