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PSU (Polysulfone)

Polysulfone is a transparent engineering plastic known for its chemical resistance, rigidity, high temperature performance, and its ability to operate in an autoclave environment. PSU is FDA and NSF compliant and holds excellent mechanical properties over a wide range of temperatures.

TYPICAL PHYSICAL PROPERTIES

| PROPERTY | UNITS | ASTM | TYPICAL |
|---|----------|-------|--------------|
| Specific Gravity, 73° F. | - | D792 | 1.24 |
| Tensile Strength, 73° F. | psi | D-638 | 10,200 |
| Tensile Modulus of Elast, 73° F. | psi | D-638 | 360,000 |
| Elongation, 73° F. | % | D-638 | 50 – 100 |
| Flexural Strength, 73° F. | psi | D-790 | 15,400 |
| Flexural Modulus of Elast., 73° F. | psi | D-790 | 390,000 |
| Shear Strength, 73 Deg. F. | psi | D-732 | - |
| Compressive Strength, 10% deformation | psi | D-695 | - |
| Coefficient of Friction (Dry vs. Steel) | - | - | .37 |
| Tensile Impact (notched), 73° F. | ft lb/in | D-256 | - |
| Coefficient of Linear Therm. Expansion | in/in/F. | D-696 | 3.1 x 10(-5) |
| Heat Deflection Temp. @ 264 psi | Deg. F. | D-648 | 345 |
| Melting Point | Deg. F. | D-789 | 371 |
| Continuous Service Temp., Air, Max. | Deg. F. | - | 300 |
| Dielectric Strength | V/mil | D-149 | 420 |
| Volume Resistivity | ohm-cm | D-257 | 5 x 10(16) |
| Water Absorption, Immersion - 24 hrs. | % | D-570 | 0.3 |

This information is only to assist and advise you on current technical knowledge and is given without obligation or liability.