



Typical Properties of

**PPS****Unfilled Polyphenylene Sulfide**

Process: Compression Molded

Property	Test Method	Unit	Value
<b>Specific Gravity</b>	D792	--	1.35
<b>Tensile Strength</b>	D638	psi	10,000
<b>Tensile Modulus</b>	D638	psi	325,000
<b>Elongation</b>	D638	%	5
<b>Flexural Strength</b>	D790	psi	18,000
<b>Flexural Modulus</b>	D790	psi	370,000
<b>Compressive Strength</b>	D695	psi	18,000
<b>Compressive Modulus</b>	D695	psi	410,000
<b>Hardness, Rockwell</b>	D785	--	M93 (R125)
<b>Hardness Durometer</b>	--	--	D85
<b>Izod Impact (notched)</b>	D256	ft. lb of notch	0.6
<b>Coeff. of Friction (Dynamic)</b>	--	dry v.s steel	0.4
<b>Coeff. of Linear Therm. Expan.</b>	E831/ D696	in./in./°F	$2.8 \times 10^{-5}$
<b>Continuous Use Temperature</b>	--	°F	425
<b>Heat Deflection Temperature</b>	D648	°F	250
<b>Glass Transition Temperature</b>	D3418	°F	230
<b>Melting Point</b>	D3418	°F	540
<b>Thermal Conductivity</b>	E1530-11	BTU in/hr ft <sup>2</sup> °F	2
<b>Dielectric Strength</b>	D149	Volts/mil	540
<b>Surface Resistivity</b>	EOS/ESD 511.11	ohm/square	$>10^{13}$
<b>Flammability</b>	UL94	--	V-0
<b>Water Absorption, 24 hrs.</b>	D570	% by weight	0.02
<b>Water Absorption, Saturation</b>	D570	% by weight	0.03
<b>Limiting PV (4:1 Safety Factor)</b>	--	--	3,000
<b>K-Factor</b>	--	--	>2,000
<b>FDA Compliance</b>	--	--	No

Note: The data provided is for reference purposes only. Additional testing may be required for design specifications or quality control.  
All values at 73 F unless otherwise stated.