



Typical Properties of

PPS

Unfilled Polyphenylene Sulfide

Process: Extruded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.35
Tensile Strength	D638	psi	13,500
Tensile Modulus	D638	psi	500,000
Elongation	D638	%	15
Flexural Strength	D790	psi	21,000
Flexural Modulus	D790	psi	575,000
Compressive Strength	D695	psi	21,500
Compressive Modulus	D695	psi	430,000
Hardness, Rockwell	D785	--	M95 (R125)
Hardness Durometer	--	--	D85
Izod Impact (notched)	D256	ft. lb of notch	0.6
Coeff. of Friction (Dynamic)	--	dry v.s steel	0.4
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	2.8×10^{-5}
Continuous Use Temperature	--	°F	425
Heat Deflection Temperature	D648	°F	250
Glass Transition Temperature	D3418	°F	230
Melting Point	D3418	°F	540
Thermal Conductivity	E1530-11	BTU in/hr ft ² °F	2
Dielectric Strength	D149	Volts/mil	540
Surface Resistivity	EOS/ESD 511.11	ohm/square	$>10^{13}$
Flammability	UL94	--	V-0
Water Absorption, 24 hrs.	D570	% by weight	0.01
Water Absorption, Saturation	D570	% by weight	0.03
Limiting PV (4:1 Safety Factor)	--	--	3,000
K-Factor	--	--	2400
FDA Compliance	--	--	Yes

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.