



Typical Properties of

**PTFE**

Polytetrafluoroethylene

Process: Compression Molded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	2.13
Tensile Strength	D638	psi	3,350
Tensile Modulus	D638	psi	50,000
Elongation	D638	%	300
Flexural Strength	D790	psi	N / A
Flexural Modulus	D790	psi	72,000
Compressive Strength	D695	psi	1,600
Compressive Modulus	D695	psi	N / A
Hardness, Rockwell	D785	--	N / A
Hardness Durometer	--	--	D50-65
Izod Impact (notched)	D256	ft. lb of notch	3.5
Coeff. of Friction (Dynamic)	--	dry v.s steel	0.05
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	$8.4 \times 10^{-5}$
Continuous Use Temperature	--	°F	500
Heat Deflection Temperature	D648	°F	132
Glass Transition Temperature	D3418	°F	68-75
Melting Point	D3418	°F	621
Thermal Conductivity	E1530-11	BTU in/hr ft <sup>2</sup> °F	1.7
Dielectric Strength	D149	Volts/mil	600
Surface Resistivity	EOS/ESD 511.11	ohm/square	$>10^{18}$
Flammability	UL94	--	V-0
Water Absorption, 24 hrs.	D570	% by weight	<0.01
Water Absorption, Saturation	D570	% by weight	<0.01
Limiting PV (4:1 Safety Factor)	--	--	1,500
K-Factor	--	--	270
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.