

Properties	ASTM or unit	PTFE
MECHANICAL PROPERTIES		
Specific Gravity	D792	2.18
Elongation %	D638	200 ~ 450
Tensile Strength (psi)	D638	2,000~7,000
Flexural Strength (psi)	D790	no break
Compressive Strength	D695	3.500
Tensile Elastic Modulus (Young's Modulus) (psi)	D638	57.000
(psi) Flexural Modulus 103MPa (103kgf/cm2)	D790	71,000 ~ 85,000
	D790	0.5-0.6 (5.0-6.0)
FlexLife (MIT cycles)	D2176	>1,000,000
Hardness Durometer Shore D	D636	D50 ~ 65
Coefficient of Friction	On steel	0.02
Abrasion Resistance 1000 revs.	Taber	12
Impact Strength IZOD 73°F/23°C, notched ft/lbs/in	D256	3
Properties	ASTM or unit	PTFE
THERMAL PROPERTIES		
Melting Point	°C (°F)	327 (621)
Upper Service Temperature(20,000h)	°C (°F)	260 (500)
Flame Rating**	UL 94	V-0
Thermal Conductivity	BTU/hr/ft2/deg F in	1.7
	cal/sec/cm2,°C/cm	6 x 10-4
Linear Coefficient of Thermal Expansion 10-5 °C	D696	>11.6
Heat of Fusion	BTU/LB	29-37
Heat of Combustion	BTU/LB	2200
Low Temperature Embrittlement	°C (°F)	-268 (-450)
Properties	ASTM or unit	PTFE
ELECTRICAL PROPERTIES		
Dielectric Constant	D150/103Hz	2.1
	D150/106Hz	2.1
Dielectric Strength 10 mil film	D149	>1400
Volume Resistivity ohm-cm	D257	>1018
Surface Resistivity ohm/sq.	D257	>1017
Properties	ASTM or unit	PTFE
GENERAL PROPERTIES		
Chemical/Solvent Resistance	D543	Excellent
Water Absorption, 24h	%	>0.01
Deformation Under Load	*D621/100 °C	5.0
	**D621/25 °C	7.0
Refractive Index		1.35
Limiting Oxygen Index	>95	>95
Properties	ASTM or Unit	PTFE
	*6.8 MPa (986 psi),24h	
	**13.7 MPa (1987 psi),24h	