

DATA SHEET

PTFE POLYTERAFLUOROETHYLENE AKA DUPONT TEFLON

PHYSICAL	
SPECIFIC GRAVITY	2.1 - 2.3
WATER ABSORPTION, 24 hr. (%)	.000 - .005
MECHANICAL	
TENSILE	
Strength, Yield (10 ³ psi) @ 73°F.	1.5 - 5
Elongation, Ultimate (%) @ 73°F.	75 - 350
Modulus, Yield (10 ³ psi) @ 73°F.	50 - 90
FLEXURAL	
Strength, (10 ³ psi) @ 73°F.	no break
Modulus, Yield (10 ³ psi) @ 73°F.	90 - 110
COMPRESSIVE STRENGTH	
2% Offset, (10 ³ psi)	
IMPACT STRENGTH	
Izod, Notched (ft. - lb./in.) @ 73°F.	
HARDNESS	R10 - 20
COEFFICIENT OF STATIC FRICTION	
Against self	
Against steel	.04 - .10
THERMAL	
CONDUCTIVITY	
(BTU/hr/sq. ft./Degree F./in.)	
COEFF. OF THERMAL EXPANSION	
(10 ⁻⁵ /Degree F.)	5.5 - 7.5
SPECIFIC HEAT	
(BTU/lb./Degree F.)	
HEAT DEFLECTION TEMP.	
(Degree F.)	
At 66 psi.	
At 264 psi	100 - 140
MAX. CONTINUOUS TEMP. (F.°)	500
ELECTRICAL	
VOLUME RESISTIVITY	
(Ohm/cm)	> 10 ¹⁷
DIELECTRIC STRENGTH	
(V/Mil)	500 - 650
DIELECTRIC CONSTANT	
At 60 HZ	
At 1 MHZ	2 - 2.1
DISSIPATION FACTOR	
At 60 HZ	2 - 2.1
At 1 MHZ	
ARC RESISTANCE (seconds)	