



PTFE or TFE

PolyTetraFluoroEthylene

Properties	ATM Method	Units	Virgin PTFE	Reprocessed PTFE	25% Glass PTFE
Specific Gravity	D792		2.14-2.20	2.15-2.20	220-230
Tensile Strength	D638	PSI	1500-3500	1500-2400	2000-3000
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Elongation	D638	%	250-350	75-200	100-260
Hardness	D1700	Durometer "D"	50-60	N/A	55-65
Deformation % 73 0 F, 1500 psi, 24 hours	D621	N/A	4-8	N/A	1.73
Deformation % 100 0 F, 1500 psi, 24 hours	D621	N/A	10-18	N/A	1.91
Deformation % 200 0 F, 1500 psi, 24 hours	D621	N/A	20-25	N/A	4.57
Impact Strength, Izod 730 0 F Average 170 0 F Average	D256	Ft./Lb./In.	3.00 6.00	N/A	2.54 3.69
Water Absorption	D570	%	0.001	N/A	0.013
Coefficient of Friction (Static) 73 0 F	*3	N/A	0.04	N/A	0.085
Dielectric Constant (100 CPS)	D150	N/A	2.00	2.26	2.4
Dielectric Strength (4) (air)	D257	Volts	1000	450	235
Coefficient of Thermal Expansion 73 0 F	D696	In./In./Ft.	5.5 x 10.3	N/A	2.75 x 10.3
Coefficient of Thermal Conductivity	*5	Btu/hr/ftz	1.7	N/A	3.12
PV at 900 ft./min	N/A	N/A	2500	N/A	15,000
Color	*6	N/A	white	off white	brownish white