## TETRA-MAX VG (Virgin Grade)

## Material Composition and Application

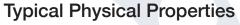
Tetra-Max VG PTFE (polytetrafluoroethylene) is a high molecular weight polymer and one of the most versatile plastics known to man. This sheet can handle virtually all chemicals in the 0-14 pH range with the exception of molten alkali metals and elemental fluorine. Tetra-Max VG is suitable for service at temperatures from the cryogenic range up to 500°F. This sheet is particularly recommended for applications in the industrial and process industries where high purity materials are required. Tetra-Max VG requires higher bolt stress to seat properly and is subject to both creep and cold flow. For better performance Tetra-Max SG expanded PTFE should be considered.

**Temperature Limits:** minimum -328°F maximum 500°F

pH Range: 0-14 Color: white

Available Sheet Sizes:  $48" \times 48"$ ,  $60" \times 60"$ , 48" or 60" continuous roll form Thickness:  $1_{64}"$ ,  $1_{32}"$ ,  $1_{16}"$ ,  $3_{32}"$ ,  $1_{8}"$ ,  $3_{16}"$ ,  $1_{4}"$ 

ASTM TEST METHOD	PROPERTIES	VALUES
D638-61T	Tensile Strength at 73°F	1500-3500 PSI
D638-61T	Elongation	250-350%
D1700-61	Hardness Durometer	D50-60
D621-59	Deformation	
	73°F - 1500 PSI - 24hr 100°F - 1500 PSI - 24hr 200°F - 1500 PSI - 24hr	4-8% 10-18% 20-25%
D256-56	Impact Strength, Izod	
	73°F Average 170°F Average	3.0 ft.lb/in. 6.0 ft.lb/in.
D570-59aT	Water Absorption Static Coefficient of Friction at 73°F	.001% .04%
D150-59T	Dielectric Constant (1000 cps)	2.0
D257-61	Dielectric Strength in Air	1000 volts/mil.
D696-44	Coefficient of Thermal Expansion at 73°F	5.5x10^-5 in/in/°F
D177-45	Coefficient of Thermal Conductivity	1.7
D792-60T	Specific Gravity	2.14-2.20





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