

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" x 48", 60" x 60",
48" or 60" continuous roll form

Thickness:

1/64", 1/32", 1/16", 3/32", 1/8", 3/16", 1/4"

Typical Physical Properties

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	4-8%
	100°F - 1500 PSI - 24hr	10-18%
	200°F - 1500 PSI - 24hr	20-25%
D256-56	Impact Strength, Izod	
	73°F Average	3.0 ft.lb/in.
	170°F Average	6.0 ft.lb/in.
D570-59aT	Water Absorption	.001%
	Static Coefficient of Friction at 73°F	.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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