

Max 1000 Mechanical Grade PTFE Sheet

PTFE (polytetrafluoroethylene) is a high molecular weight polymer and one of the most versatile plastics. This sheet can handle nearly all chemicals in the 0-14 pH range with the exception of molten alkali metals and elemental fluorine. It 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 not required. It is more economical than virgin PTFE sheet and the physical properties are only somewhat less than those of virgin PTFE.

SERVICE LIMITS

Type	Description	Value
Temperature	Minimum	-328°F
	Maximum	500°F
Color	White	
Available Sheet Sizes	Thicknesses	1/32", 1/16", 3/32", 1/8", 3/16", 1/4"
	Sheet Sizes	48" x 48" or 60" x 60" sheets

TYPICAL PHYSICAL PROPERTIES*

ASTM Test Method	Property	Value
D638-61T	Tensile Strength at 73°F	1500-2400 psi
D638-61T	Elongation	75-200%
D1700-61	Hardness Durometer	-
D621-59	Deformation	-
	73°F, 1500 psi, 24 hr.	-
	100°F, 1500 psi, 24 hr.	-
	200°F, 1500 psi, 24 hr.	-
D256-56	Impact Strength, Izod	-
	73°F Average.	-
	170°F Average	-
D570-59aT	Water Absorption	0.00%
—	Static Coefficient of Friction at 73°F	-
D150-59T	Dielectric constant (1000 cps)	2.26
D257-61	Dielectric Strength in Air	450 volts/mil.
D696-44	Coefficient of Thermal Expansion at 73°F	-
D177-45	Coefficient of Thermal Conductivity	-
D792-60T	Specific Gravity	2.15-2.2

*This data is a general guide for selection of materials and does not constitute specification limits. It should not be used as the sole means of specifying a material for an application.