



NA1500 Virgin PTFE Sheet

DESCRIPTION / APPLICATION

Style NA1500 PTFE (polytetrafluoroethylene) is a high molecular weight polymer and one of the most versatile plastics known to man. Style 1500 virgin PTFE sheet can handle virtually 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 style is particularly recommended for applications in the food and beverage industry where high purity materials are required. It is also used where contamination or discoloration of flow media cannot be tolerated.

SERVICE LIMITS		
Type	Description	Value
Temperature Limits	Minimum	-328°F
	Maximum	500°F
Color	White	
Available Sheet Sizes	Thicknesses	1/64", 1/32", 1/16", 3/32", 1/8", 3/16", 1/4"
	Sheet Sizes	48" x 48" or 60 x 60" sheets
		48" or 60" wide continuous rolls
TYPICAL PHYSICAL PROPERTIES*		
ASTM Test Method	Property	Value
D638-61T	Tensile Strength at 73°F	2000-3000
D638-61T	Elongation	100-260%
D638-61T	Hardness Durometer	D55-65
D621-59	Deformation	
	73°F, 1500 psi, 24 hr.	1.73%
	100°F, 1500 psi, 24 hr.	1.91%
	200°F, 1500 psi, 24 hr.	4.57%
D256-56	Impact Strength, Izod	
	73°F Average.	2.54 ft.lb./in.
	170°F Average	3.69 ft.lb./in.
D570-59aT	Water Absorption	.013%
—	Static Coefficient of Friction at 73°F	.085%
D150-59T	Dielectric constant (1000 cps)	2.4
D257-61	Dielectric Strength in Air	235 volts/mil.
D696-44	Coefficient of Thermal Expansion at 73°F	2.75 x
D177-45	Coefficient of Thermal Conductivity	3.12
D792-60T	Specific Gravity	2.20-2.3

*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.

Properties and application parameters shown throughout this datasheet are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult TEADIT. Failure to select proper sealing products could result in property damage and/or serious personal injury. Specifications are subject to change without notice. This edition supersedes all previous issues.

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