

VIRGIN PTFE



DESCRIPTION / APPLICATION

VIRGIN PTFE (polytetrafluoroethylene) is a high molecular weight polymer and one of the most versatile plastics known to man. 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.

***MECHANICAL GRADE PTFE** is also available and is 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 Limits	Minimum	-328°F
	Maximum	500°F
Color	White	

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. 100°F, 1500 psi, 24 hr. 200°F, 1500 psi, 24 hr.	1.73% 1.91% 4.57%
D256-56	Impact Strength, Izod 73°F Average. 170°F Average	2.54 ft.lb./in. 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



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