

High Purity PTFE Products



FOR CRITICALLY CLEAN APPLICATIONS

Technetics PTFE & Polymer Solutions' high purity PTFE rods, cylinders and sheets are used for a variety of applications where cleanliness is essential. Our material was specifically created to meet the medical and semiconductor industries' critical needs.

CLEAN PROCESSING

Our high purity PTFE is processed, packaged and labeled in a strictly controlled clean environment creating the highest purity products. Only the highest quality resins are used to create enhanced characteristics as well as improved cosmetics.

SHAPES AND SIZES

- Cylinders and rods 1" to 55" diameter
- Sheet .001" - 8" thick

MACHINING

Custom machining of high purity material is available. We have the ability to meet tight tolerances to complicated blueprints.

CUSTOMIZED

Technetics PTFE & Polymer Solutions provides customized PTFE solutions for the individualized needs of each customer.

MATERIAL

TEXOLON® high purity PTFE material comes in two different styles:

- Premium Virgin PTFE: Style 8764 THP™
- Modified PTFE: Style 8790 THP™ - Modified materials are typically used to enhance sealing, weldability and permeation resistance.



TECHNETICS PTFE & POLYMER SOLUTIONS

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TEXOLON® High Purity Typical Material Properties

TYPICAL 8764 THP™ PROPERTIES: PREMIUM VIRGIN PTFE

Property	Units	ASTM Method	Typical values ¹
Specific Gravity		D-792	2.14-2.20
Hardness	Shore D	D-2240	52-65
Tensile Strength	psi	D638, D-1708	4000 min
Elongation	%	D-38, D-1709	300 min
Deformation under load (73 F, 2000 psi, 24 Hrs)	%	D-621	15-16
Coefficient of Linear Thermal Expansion (78° F, -400°F)	In./in/°F	D-696	4-9 x 10 ⁻⁵
Thermal Conductivity	BTU/hr./ft. ² /F.in	C-177	1.7
Volume Resistivity	Ohm-cm	D-257	>10 ¹⁵
Dielectric Strength	Volts/mil	D-149a	600 min

TYPICAL TEXOLON® 8790 THP™ PROPERTIES: MODIFIED PTFE

Property	Units	ASTM Method	Typical values ¹
Specific Gravity	G-Cm ³	D-792	2.14-2.20
Hardness	Shore D	D-2240	55-60
Tensile Strength	psi	D-1708	4000 min
Elongation	%	D-1708	450 min
Dielectric Strength	Volts/mil	D-149a	2000 min

The measured values expressed in ranges reflect measurements made both with and across the molding direction of the product.

Warning: Properties shown on this document are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations, consult Technetics PTFE & Polymer Solutions. While the utmost care has been used in compiling this document, we assume no responsibility for errors. This edition cancels all previous issues. Subject to change without notice.

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