

PTFE is the most widely used fluoropolymer material with an almost universal chemical compatibility and wide range of temperature capabilities. PTFE offers unique properties which make it suitable for a wide range of applications.

ABOUT #T1000

T1000 is a general use, Virgin PTFE that can be manufactured in a variety of different geometries.

FEATURES

- Best chemical compatibility
- low friction
- FDA Compliant
- USDA and 3-A
- Excellent moisture resistance and good cryogenic capabilities down to -350° F.

APPLICATION EXAMPLES

- Seals
- Spring energized seals
- Bushings, back-ups, guides, pads, plugs, rollers, spacers, o-rings, wear rings, washers

ADDITIONAL INFORMATION

- Service Temperature of -350° to 550°F
- Spec: ASTM

This information is accurate and reliable to the best of our knowledge. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use.

PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM Method	Typical Test Results
Hardness, Shore D	----	51-55
Color	----	White
Tensile Strength, psi	D-1708-79	5200
Ultimate Elongation, %	D-1708-79	360
DEFORMATION TESTING	ASTM Method	Typical Test Results
78°, 2000 psi, 24 hrs, Permanent Deformation, %	D-621-64	8.5
500°, 600 psi, 24 hrs, Permanent Deformation, %	D-621-64	19
FLEXURAL STRENGTH	ASTM Method	Typical Test Results
Flexural Modulus, psi	D-790-80	0.97E5
COMPRESSIVE STRENGTH	ASTM Method	Typical Test Results
0.2% σ set, 5% Strain, psi	D-695-80	700
COMPRESSIVE MODULUS	ASTM Method	Typical Test Results
psi	D-695-80	6E4
COEFFICIENT $^{\circ}$ F LINEAR EXPANSION	ASTM Method	Typical Test Results
78 $^{\circ}$ F to 200 $^{\circ}$ F, in/in $^{\circ}$ F	D-696-79	6.8E-5
78 $^{\circ}$ F to 300 $^{\circ}$ F, in/in $^{\circ}$ F	D-696-79	7.0E-5
78 $^{\circ}$ F to 400 $^{\circ}$ F, in/in $^{\circ}$ F	D-696-79	7.6E-5
78 $^{\circ}$ F to 500 $^{\circ}$ F, in/in $^{\circ}$ F	D-696-79	9.1E-5
THERMAL CONDUCTIVITY	Test Method	Typical Test Results
(BTU-in)/(hr-ft 2 - $^{\circ}$ F)	Cenco Fitch	1.7
THERMAL PROPERTIES		Typical Test Results
Melting Point, $^{\circ}$ F		621
Upper Service Temperature, $^{\circ}$ F		500
Low Temperature Brittle Point, $^{\circ}$ F		-450
WEAR FACTOR		Typical Test Results
K E-10		2500
COEFFICIENT $^{\circ}$ F FRICTION		Typical Test Results
Static @ 33.33 psi		0.08
Dynamic @ 33.33 psi, 150 fpm		0.16