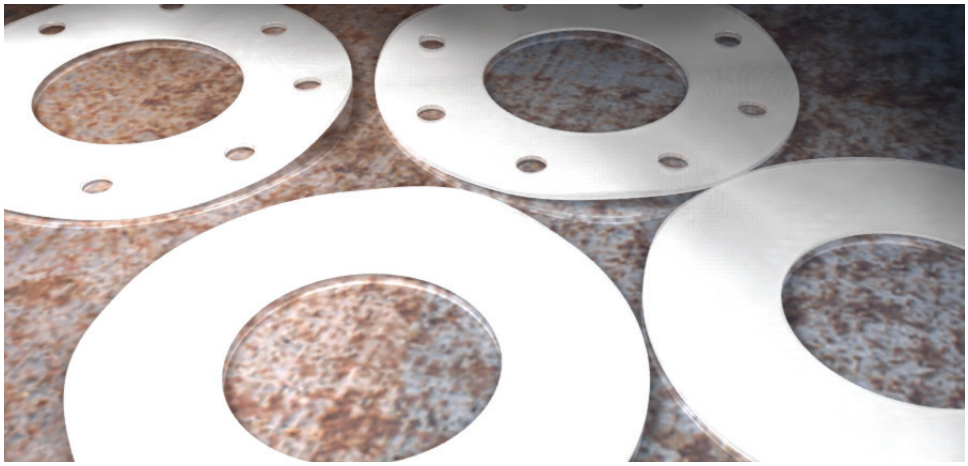
PTFE ENVELOPE GASKETS

Milled or Split, Ring and Full Face.

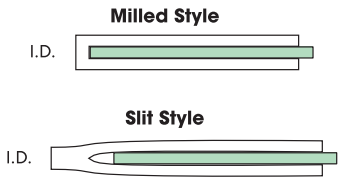


Protect Your System From Contamination!

MFP Seals manufactures both Ring and Full Face Envelope Gaskets from T1000 (Virgin PTFE) rod stock. Our envelopes are available in milled and slit styles. PTFE envelope gaskets are an effective means by which compression gasket materials are blocked from entering the system in food processing and chemical industries where contamination is not allowed.

At low bolt loads, our PTFE envelope gaskets provide an effective seal, are highly deformable, display excellent creep resistance and are resistant to solvents and corrosives. The gaskets are used in conjunction with a wide range of filler materials, designed to exceed the specifications of your application.

MFP Seals' Milled Envelope Gaskets feature a square shoulder I.D., allowing unrestricted flow in the pipe flange. The envelope is milled from the O.D. to approx. 1/32" of the inner diameter. By machining the inner cut, gasket filler materials fit more precisely.



Available in a wide range of sizes, the Slit Style Envelope Gasket is a more popular design, and are available in a wide range of sizes. The PTFE disk is split, creating two flaps of PTFE material, while maintaining a connection at the inner diameter (I.D.). This forms an envelope for the filler gasket. Because of the way it is made, greater clearance is necessary between the I.D. of the filler material and the envelope's ID, (as compared to a milled envelope gasket).

Give MFP Seals a call and order your T1000 PTFE Envelope Gaskets today!

Material Facts
T1000 (Virgin PTFE)

Properties	Method	Typical Value
PHYSICAL - MECHANICAL		
Density (g/cm^3)	ASTM D792	2.14 - 2.18
Hardness Shore D (points)	ASTM D2240	51 - 60
Tensile Strength CD (MPa)	ISO 527	≥ 20
Elongation at Break CD (%)	ISO 527	>200
Compressive Strength at 1% deformation CD (psi)	ASTM D695	580 - 725
Deformation under load at room temp. after 24 hours at 13.7 N/mm^2 CD (%)	ASTM D621	14 - 17
Permanent deformation as above after 24 hours of rest at room temp. CD (%)	ASTM D621	7 - 8
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Impact strength Izod (J/m)	ASTM D256	153
TRIBIOLOGICAL		
Dynamic Coefficient of Friction	ASTM D1894 ASTM D3702	0.06
Wear factor K	ASTM D3702	2.900
PV limit at 3 m/min at 30 m/min at 300 m/min	$N/mm^2 \cdot m/min$	2.4 4.2 5.7
THERMAL		
Service Temperature (min to max)	°C °F	-200 to +260 -328 to +500
Thermal expansion coefficient (linear) 25 - 100°C (10-5in/in/°F)	ASTM D696	6.625 - 7.206
ELECTRICAL		
Dielectric Strength (specimen 0.5 mm thick) (KV/mm)	ASTM D149	≥ 40
Dielectric Constant at 60 Hz and 106 Hz	ASTM D150	2.05 - 2.10
Volume Resistivity ($\Omega \cdot cm$)	ASTM D257	1018
Surface Resistivity (Ω)	ASTM D257	1017

CD = Cross Direction

The data we are herewith providing are all based on laboratory testing and are proposed to technical designers as possible and useful advice. Deviations from the values indicated may occur, but they do not constitute themselves either detriment of quality or reason for rejection.

MFP SEALS®
MARTIN FLUID POWER

For more information, or to place an order contact:
Corporate Headquarters
900 E. Whitcomb Ave., Madison Heights, MI 48071
(248) 585-8170 · sales@mfpseals.com
www.mfpseals.com