

TEFPASS® M-PTFE GBK Lining Sheet

- Better weldability.
- Denser polymer structure with reduced permeability.
- Substantially lower deformation under load.
- High degree of purity. Therefore, M-PTFE is very suitable for semi-conductor industry.
- Smooth and pore-free surface that prevent contaminants being trapped and thus make cleaning M-PTFE sheet surface considerably easier.
- Substantially fewer cleaning cycles of M-PTFE due to optimized surface properties compare to conventional PTFE.

Safety
Innovation
Quality
Service

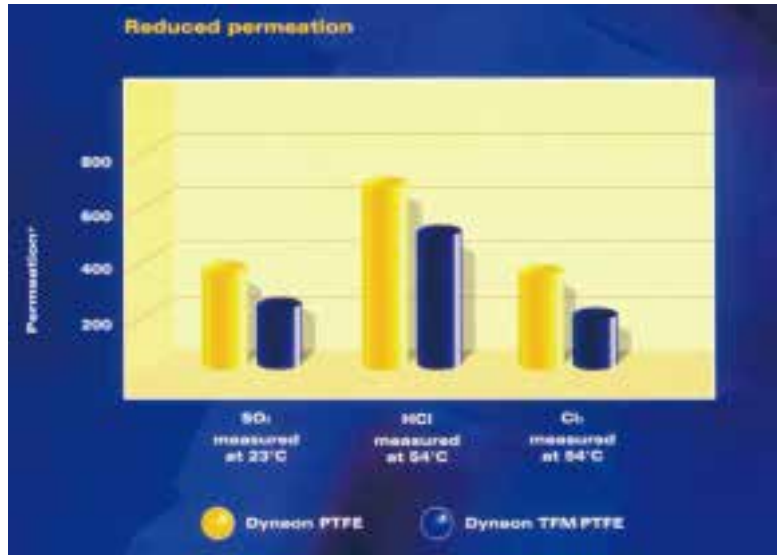


Reduced permeation:

*According to DIN 53380. film thickness 1mm.

$$\frac{\text{Cm}^3}{\text{M}^2 \times \text{d} \times \text{bar}}$$

Permeation of chemicals through A 1mm film test film made from M-PTFE is much lower than through A film made from PTFE.

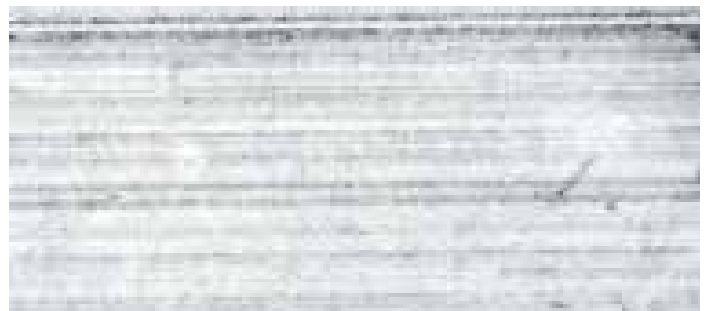


Skived Film under an optical microscope at 25X magnification:

The denser polymer structure of M-PTFE is apparent under the microscope.



Conventional PTFE :
The original particle boundaries are clearly discernible after the sintering process.

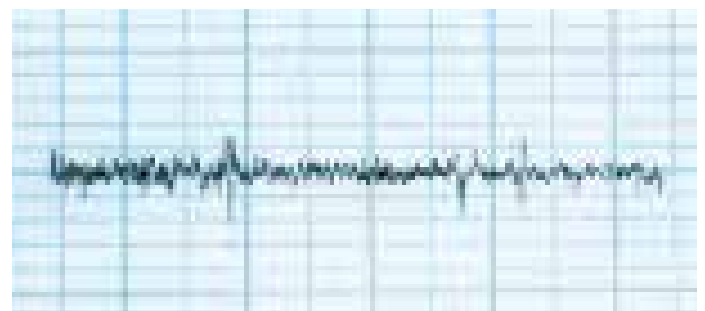


M-PTFE :
The original particle boundaries are no longer discernible because of better fusion between particles.

Laser surface profilometry – Surface roughness of fluoropolymer:



PTFE sheet



M-PTFE sheet

Surface roughness of machined parts: (50:1 magnification)



Note the rougher surface of machined parts made from conventional PTFE.



The much smoother surface of M-PTFE part can be clearly seen under the microscope.

Specifications:

Nominal Size	M-PTFE sheet Thickness (mm)	Total thickness (mm)	Width (mm)
2.4 mm	2.4	3.1	1,200
3 mm	3	3.7	1,200

Welding Material:

Item	PFA 451HP rod				PFA 451HP cap strip	
	3Ø	3.5Ø	4Ø	5Ø	14w×2.5t	14.7w×2.7t
Dimension (mm)	3Ø	3.5Ø	4Ø	5Ø	14w×2.5t	14.7w×2.7t
Roll length	100M/Roll				50M/Roll	
Weight (g/M)	15.2	20.5	26.8	41.9	74.9	84.7

Resource:

1. Above data are excerpted from M-PTFE brochure.
2. PFA 451HP is a product name of Dupont.



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