



***TEFPASS<sup>®</sup> Sheet***  
***Fluoroplastic Laminates***  
***and Plain Sheets***

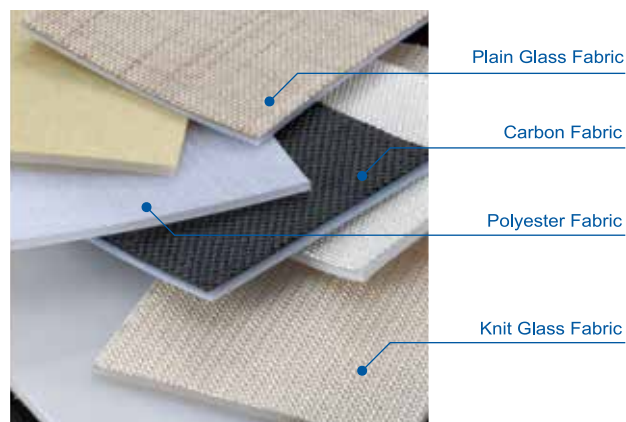
*Safety*  
*Innovation*  
*Quality*  
*Service*



## Specification of TEFPASS<sup>®</sup> Laminated Sheet

Sheet Material	Backing	Thickness (mm)	Width (mm)
PTFE	Plain Glass Fabric	2.0	1,200
	Carbon Fabric	3.0	1,500
Modified PTFE	Knit Glass Fabric	2.4	1,200
	Plain Glass Fabric	3.0	1,500
	Carbon Fabric		
PFA		1.5	1,200
		2.0	
		2.3	
		3.0	
PFA 451HP	Knit Glass Fabric	1.5	
	Plain Glass Fabric	2.0	
	Carbon Fabric	2.3	
PFA 951HP Plus		3.0	
		2.3	
FEP		2.3	
		3.0	

- Thickness according to ASME RPT-1, M12B-200(b) Fiber Free Thickness.
- Bonding strength of fluoroplastic and fabric according to ASTM D1781 Climbing Drum Test (at least 50 in-lb/in), or ASTM D903 Peel and Stripping Strength Test (at least 2 Kgs/cm).
- Special thickness is available upon request.



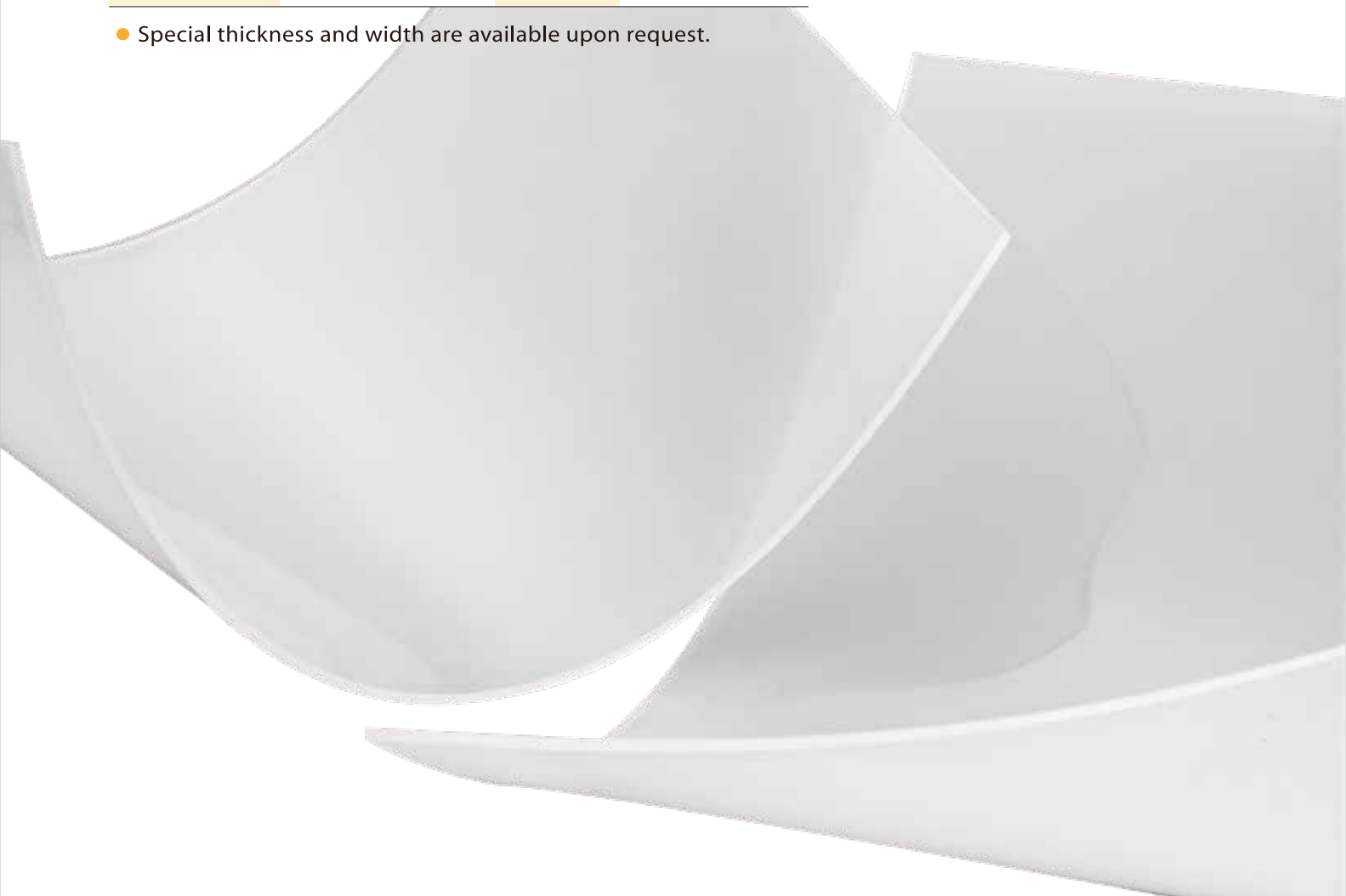
## PTFE / Modified PTFE Skived and Etched Sheet

### Specification

Thickness (mm)	Thickness Tolerance	Width (mm)	Width Tolerance (mm)
1.0	+0.2 , - 0.1(mm)	1,200	±100
1.5		1,500	
2.0	+0.2 , - 0.1(mm)	1,200	
2.4			
3.0			
4.0	+0.25 , - 0.15(mm)	1,500	
5.0	+0.3 , - 0.15(mm)		
6.0			



- Special thickness and width are available upon request.



# TEFPASS<sup>®</sup> SHEET

## Specification of TEFPASS<sup>®</sup> Plain Sheet

Sheet Material	Thickness (mm)	Width (mm)
PFA	1.5	1,200
	2.0	
	2.3	
	3.0	
PFA 451HP	1.5	
	2.0	
	2.3	
	3.0	
	4.0	
FEP	2.3	
	3.0	

- Thickness tolerance: -0.1, +0.2mm.
- Special material and thickness are available upon request.

## Welding Rod

Material	Diameter (mm)	Roll length (m)
PFA	3.0	100
	3.5	
	4.0	
	5.0	
FEP	3.0	
	3.5	

## Welding Cap Strip

Material	Thickness (mm)	Width (mm)	Roll length (m)
PFA	2.5	14	50
	2.7	14.7	

## Comparison Chart of Fluoroplastic Materials

	Property	UNIT	ASTM Standard	PTFE	Modified PTFE	FEP	PFA
Mechanical	Specific gravity		D792	≥2.15	≥2.16	≥2.13	≥2.13
	Tensile strength	Kgf/cm2	D638	≥250	≥250	≥250	≥250
	Elongation at break	%	D638	≥250	≥250	≥250	≥250
	Compression strength	kgf/cm2	D695	120	160	-	170
	Impact strength	kgfcm/cm	D256A	16.3	-	-	-
	Rocks well hardness	-	D785	-	-	-	-
	Shore hardness	-	D2240	D50~55	D58	D55	D60
	Bending elasticity	-	D790	5.6	-	-	6.7~7.0
	Tensile elasticity	10 <sup>3</sup> kgf/cm	D638	4.1~5.6	-	-	-
	MIT Flex life	Cycles	D2176	>1,000,000	-	80,000	10,000~500,000
	Coefficient of friction (Static)		D1894	0.02	-	-	0.04
	Coefficient of friction (Dynamic)	7kgf/cm2 3m/min	D1894	0.10	0.18	-	0.20
Thermal	Melting point	°C	-	327	324	255	310
	Thermal conductivity	10 <sup>-4</sup> cal/cm <sup>2</sup> sec/°C	C117	6.0	6.0	-	6.0
	Specific heat	Cal/°C/g	-	0.25	0.25	-	0.25
	Linear expansion	10 <sup>-4</sup> /°C	D696	10	12	-	12
	Deformation under load						
	18.5kgf/cm2	°C	D648	55	-	-	47
	4.6kgf/cm2	°C	D648	121	-	-	74
	Oxygen index	%	D2863	>95	96	>95	>95
	Flame rating		UL-94	V-0	V-0	V-0	V-0
Max. temperature (Continuously)	°C	-	260	260	205	260	
Electrical	Dielectric constant		D150/1MHz	2.1	2.1	2.1	2.1
	Dissipation factor		D150/1MHz	0.0001	0.00007	0.0002	0.0001
	Volume resistivity	Ohm-cm	D257	>10 <sup>18</sup>	-	>10 <sup>16</sup>	>10 <sup>18</sup>
	Surface resistivity	Ohm/cm2	D257	>10 <sup>18</sup>	-	-	>10 <sup>17</sup>
	Arc resistivity	Sec.	D495	>300	-	-	>180



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