

# PFA Film

## PFA fluoropolymer melt extruded film

PFA film is produced from PFA resin by a melt extrusion casting process. It contains many advantages of fluoropolymer film, such as its continuous service temperature up to 260°C, excellent corrosion resistance, tear resistance and dielectric properties, etc.

### PFA Film Characteristics

- Continuous service temperature range from -254°C~260°C
- Maximum service temperature range from 300°C to 310°C
- Heat sealing, heat forming, composite on different media surfaces
- An excellent high temperature adhesive
- Chemically inert to most chemicals and solvents
- Outstanding dielectric properties over a wide range of frequencies and temperatures
- High dielectric strength, over 6500 volts
- Free of plasticizers, processing aids, or additives
- Excellent light transmission and high clarity
- High transparency and light transmission

### PFA Film Applications

- |                                      |              |
|--------------------------------------|--------------|
| ● Electrical Insulation              | ● PCB/FPCB   |
| ● Chemical Equipment                 | ● Flat Cable |
| ● Semiconductor                      | ● Food       |
| ● Heat-sealing Packaging/Hot welding |              |
| ● Hot Melt Adhesive                  |              |
| ● Electrical/Electronics             |              |
| ● Medical / Pharmaceutical           |              |
| ● Communication/Flat cable           |              |
| ● Composite material mold release    |              |

### PFA Film Grades

#### PFA HP Grade

- Manufactured from 100% high-purity grade PFA resin
- Applied in high-end applications such as electronics, optics, medical industry, etc

#### PFA WG Grade

- Cost savings of 15-20% compared to PG grade
- Excellent mechanical, thermal properties and electrical performance
- Suitable for hot sealing, welding and other non-aesthetically demanding hot melt adhesive applications

#### PFA MR Grade

- High elongation and excellent fit softness to complex contoured molds
- Customer colors available upon request
- Available in a variety of perforated patterns

### PFA Film Specifications

- Thickness range from 12μm~500μm
- Width up to 1524mm
- Any syncopated widths available upon request
- Adhesive surface: plasma treated or chemically etched

# PFA Film

			PFA HP	PFA WG	PFA MR
Basic Properties	Unit	Test Method			
Specific Gravity		ASTM D972	2.15		
Flammability		UL-94	V-0		
Water Absorption	%		<0.01		
Mechanical Properties					
Tensile Strength	MPa	ASTM D882	17		
Elongation At Break	%	ASTM D882	300		
Tensile Modulus	MPa	ASTM D882	480		
Initial Tear Strength (50µm)	N	ASTM D1104	4.9-5.3		
Propagation Tear Strength (50µm)	N	ASTM D1922	2.4-2.7		
Thermal properties					
Continuous Use Temp	°C	UL-746 B	260		
Melt Point	°C	ASTM D3418	302-310		
Electrical property					
Dielectric Strength(25µm)	Volts	ASTM D149	6500(260kv)	n/a	
Product Size					
Width	mm		1524		
Thickness	µm		12.5-500		
Standard Colors			Clear	Clear, Colour	Red,Clear
Available Surface Treatment			Chemical Etching / Plasma Treatment		

Represent typical performance properties and should not be used for specification purposes.

Contact PLUSXTECH film sales representative for appropriate values.