

Freverseal®



## *Focuses on Various Industries*



*New Electrical and Electronic  
Materials Solutions Provider*

**ABOUT US**

Founded in 2009, Foreverseal is one high quality ePTFE film manufacturer in China. More than 10 years development, our ePTFE films have been widely used in highly critical military, aerospace, energy, chemical industry and variety of electrical application.

We have advanced high precision production equipment and ePTFE film test laboratory; The experts who have engaged in the Fluorine industry more than 30 years led the whole technical team, providing us a strong technical for ePTFE film and guide us to the new area of PTFE products in the future!

PTFE is a special material, lets work together to make it in a wider range of uses to fulfill the customers' need and even the requires of the whole social development!



**OUR STRENGTHS**

- 1.** Constant temperature and 100,000 class dustless workshop
- 2.** Advanced high - precision machines
- 3.** Lead by more than 30 years experts in Fluorine industry
- 4.** A fully equipped test laboratory

# LOW DENSITY ePTFE FILM & TAPE

## Standard series - SS

Low density ePTFE film&tape produce micropore through stretch and under a certain specific and tightly controlled conditions to achieve low dielectric constant and high tensile strength.

It's light, soft, flame retardant and the low dielectric constant makes low density PTFE tapes for high frequency microwave coaxial cable applications in data transfer, military and medical field.



### MATERIAL

- \*PTFE (Polytetrafluorethylene)
- \*Expanded, natural or white
- \*Thickness: 0.051mm - 0.254mm
- \*Width: 4mm - 200mm
- \*Density: 0.50g/cm<sup>3</sup> - 0.90g/cm<sup>3</sup>



### FEATURES & APPLICATION

- \*High temperature and chemical resistance
- \*Flammability resistivity
- \*High porosity results in superior dielectric properties
- \*High tensile strengths that support fast wrapping speeds
- \*Long joint free lengths
- \*RoHS and REACH compliant

## FOR USE IN

- \*Wire and cable insulation for extreme chemical and thermal environments
- \*Dielectric material in coaxial cables
- \*Binder tape in cable constructions and wire harnesses
- \*Convuluted hose constructions
- \*And more



## TECHNICAL DATA

Thickness	0.0020"	0.0030"	0.0040"	0.0050"	0.0060"	0.0080"	0.0100"
	0.051mm	0.076mm	0.102mm	0.127mm	0.152mm	0.203mm	0.254mm
Tolerance	±0.00020"	±0.00020"	±0.00025"	±0.00030"	±0.00030"	±0.00040"	±0.00040"
	±0.005mm	±0.005mm	±0.006mm	±0.0076mm	±0.0076mm	±0.010mm	±0.010mm
Width	4mm - 200mm						
Density	0.50g/cm <sup>3</sup> - 0.90g/cm <sup>3</sup>						
Tensile Strength (minimum)	12 MPa						
Elongation (minimum)	50%						
Joint Free Lengths	> 200m						

# HIGH DENSITY ePTFE FILMS/TAPES

## 2 High performance Serious -HS

High density PTFE films/tapes provide superior electrical and chemical of the standard serious. It's recommended for heating cables, aircraft and automotive cable in highly critical military, aerospace and high demand industrial.

### MATERIAL

- \*PTFE (Polytetrafluorethylene)
- \*Expanded, white or colors
- \*Thickness: 0.051mm - 0.254mm
- \*Width: 4mm - 200mm
- \*Density: 1.60g/cm<sup>3</sup>

### FEATURES AND APPLICATIONS

- \*High dielectric strength
- \*High temperature and chemical resistivity
- \*Flammability resistivity
- \*Tight thickness tolerances
- \*RoHS and REACH compliant



### FOR USE IN

- \*Wire and cable insulation for extreme chemical and thermal environments
- \*Binder tape in cable constructions and wire harnesses
- \*Dielectric material in coaxial cables
- \*Aircraft and high performance wire and cable
- \*Medical devices/equipment cabling solutions
- \*Mechanical energy transfer
- \*Chemical transfer
- \*Electrical and electronic industry.
- \*And more

## TECHNICAL DATA

Thickness	0.0020"	0.0030"	0.0040"	0.0050"	0.0060"	0.0080"	0.0100"
	0.051mm	0.076mm	0.102mm	0.127mm	0.152mm	0.203mm	0.254mm
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	±0.005mm	±0.005mm	±0.006mm	±0.0076mm	±0.0076mm	±0.010mm	±0.010mm
Width	4mm - 200mm						
Density	1.60g/cm <sup>3</sup>						
Tensile Strength (minimum)	10 MPa						
Elongation (minimum)	50%						
Joint Free Lengths	> 200m						

## SLITTING AND PACKAGING

Slitting width of 4mm to 200mm, the winding roll maximum OD 300mm, the plastic cores ID 76mm with flat pad and step pack/solid pad.

## STORING RECOMMENDATIONS FOR UNSINTERED TAPES

For maximum shelf life, it is recommended that PTFE films are stored in a clean, temperature-controlled environment at or below 21°C with relative humidity below 50%.