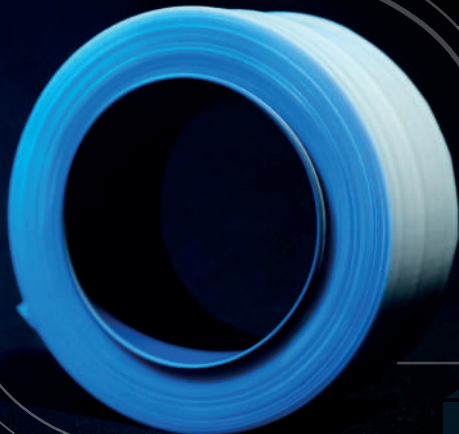


# PTFE Skived Film

PTFE films are made using a special process called skiving. Poly Fluoro skived PTFE films come in thicknesses of 0.04mm to 0.4mm and are primarily used in insulation. Films are usually made using 100% pure virgin PTFE, but we provide the option of customizing with glass or carbon fillers, as per requirements.

Good quality skived films depend on both the moulding and skiving to be done using the right techniques and equipment. The properties of the end product are defined in the moulding phase, while the consistency of thickness and the absence of pinholes are controlled for during skiving.

Additionally, the films can be etched on either one or both sides to allow for bonding to other surfaces.



Excellent release properties

Does not support combustion

Heat stable

Exceptional thickness uniformity

Excellent release properties

High dielectric strength

High deflection temperature

Excellent chemical and weather resistance

Thicknesses	<b>0.04mm - 0.4mm</b>
Widths	<b>5mm - 350mm</b>
Continuous lengths	<b>up to 750mts</b>

Typical Properties of Poly Fluoro PTFE Film	Value	ASTM Method
<b>Mechanical</b>		
Tensile strength N/mm <sup>2</sup>	15-25	D4894
Ultimate elongation (%)	350	D4894
Coefficient of friction (film to film)	0.1	D4894
<b>Electrical</b>		
Dielectric strength in air, kV/mm	70-90	D150
Dielectric constant, 60Hz at 23°C	2.1	D150
Dissipation factor, 60Hz at 23°C	<0.0003	D150
Surface resistivity, ohms	>10 <sup>17</sup>	D257
<b>Thermal</b>		
Continuous service temperature, °C (depends on application)	250°C	E 831
Melting point, °C	375°C	E 831
<b>General</b>		
Specific gravity	2.13-2.24	D792
Water absorption, (24 hours), %	<0.01	D570
Flammability	V0	UL94
Oxygen index	>95	D2863
Refractive index	1.376	D542

## Why Poly Fluoro?

Due to our in-house moulding, skiving, slitting, and etching facilities, Poly Fluoro can offer customized thicknesses and widths. Therefore, we do not compel the client to choose from a stock list of dimensions but rather help them **find customized solutions** that match their exact requirements.

Poly Fluoro only uses the **best quality** resins in manufacturing films. We do not employ any reprocessed/recycled resins in our process. As a result, our products' end properties and consistency are in line with **global standards**.

