

PTFE film/foil



Skived films and foils are semi-finished products, available with a maximum thickness of 5mm. For thickness larger than 5mm, we direct you to section PTFE sheet.

Width and length are according customer specification. The films and foils are skived from large PTFE blocks (round).

For applications in which the PTFE film or foil must be bonded, we recommend a one side etched (or two side) etched PTFE film or foil. We can supply you the etching agent or the etched PTFE product itself

Key properties of PTFE

- Excellent chemical resistance
 - Working temperature -190°C to +260°C
 - Greatest resistance to fatigue (Wöhler curve)
 - FDA approved
 - Flame resistant - UL94V0
 - No stick
 - Low friction
 - UV-resistant (does not age)
 - Not hygroscopic (water absorption < 0,01%)
 - Very good dielectric dielectric insulation properties
- Properties of PTFE can be improved by adding additives as carbon, graphite, glass etc.

	Property	Specification	Unit	Value
General	Continuous working temp.	Maximum	°C	260
	Chemical resistance		-	Excellent
	Specific gravity	D 792	g/cm ³	2.14-2.20
Electrical	Dielectric constant	D 150 at 10 ³ Hz	-	2.1
		D 150 at 10 ⁶ Hz	-	2.1
	Dielectric dissipation factor	D 150 at 10 ³ Hz	-	0.0002
		D 150 at 10 ⁶ Hz	-	0.0002
	Dielectric strength	D 149	kV/mm	48
	Volume resistivity	D 257	Ohm·cm	>10 ¹⁸
Mechanical	Tensile strength	D 1708, D 638	Mpa	25
	Elongation	D 1708, D 638	%	>260
	Compressive strength	D 695	Mpa	24
	Impact strength	D 256 bij +23°C	J/m	No break
	Flexural Modulus	D 790 bij +23°C	Mpa	620
	Tensile Modulus	D 638	Mpa	550
	Hardness	D 2240	-	55-72
Thermal	Melting (gel)point		°C	327
	Thermal conductivity	+23°C	W/Kg.m	0.25
	HDT	DIN 75	°C	
	method A			122
	method B			55

* Actual properties may change due to processing method, compound type, extruded dimensions and other variables. It is the user's responsibility to evaluate and fully test the suitability of the product for their specific application.

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Thickness μm	Width (min) mm	Width (max) mm
25 - 100	10	300
100 - 5000	10	1600

Above mentioned dimensions are our standard. Other sizes available on request.

Polyfluor