



Cast PTFE Film Series

TCI CAST PTFE FILM FOR CHEMICAL, THERMAL AND MECHANICAL APPLICATIONS

Cast Film™ Description:

TCI's Cast Film is a 100% pure PTFE multi-layered film.

It is designed to meet the challenges of chemical, thermal and mechanical applications where low friction is desired, gases and/or corrosive liquids are present, and the environment is at elevated temperatures.

TCI's Cast Film is a formidable gas/liquid barrier which is a relaxed amorphous film that can be equally stretched in all directions without stress whitening. It has a high level of purity, is non-porous and pin-hole free.

Variations Available:

- Surface treatment on one side for adhesive bonding
- Thermally bondable surface on one side
- Available un-pigmented (natural/clear)
- Available pigmented in colors including red, blue, white, yellow & tan



TCI CAST PTFE FILM PROPERTIES

Weight Conversion (lbs to sq ft):	One pound of 1 mil film yields 90 sq ft
Thickness Range inches (mm):	0.001" to 0.005" (0.0254 mm to 0.127 mm)
Maximum Width: inches (mm)	56" (1400mm)
Service Temperature: °F (°C)	-328 to 600 (-200 to 315)
Tensile Strength, typical* (psi):	4,800
Elongation, minimum (%):	400
Dielectric Constant (60-10⁸ Hz):	2.0
Power/Dissipation:	<0.0001
Surface Resistivity:	1x10 ¹⁸
Volume Resistivity:	>10 ¹⁵
Dielectric Strength (volts/mil):	4200
Surface Arc Resistance:	Does not arc

*0.002" (50 µm) film

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