



## 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

<b>Weight Conversion (lbs to sq ft):</b>	One pound of 1 mil film yields 90 sq ft
<b>Thickness Range inches (mm):</b>	0.001" to 0.005" (0.0254 mm to 0.127 mm)
<b>Maximum Width: inches (mm)</b>	56" (1400mm)
<b>Service Temperature: °F (°C)</b>	-328 to 600 (-200 to 315)
<b>Tensile Strength, typical* (psi):</b>	4800
<b>Elongation, minimum (%):</b>	400
<b>Dielectric Constant (60-10<sup>8</sup> Hz):</b>	2.0
<b>Power/Dissipation:</b>	<0.0001
<b>Surface Resistivity:</b>	1x10 <sup>18</sup>
<b>Volume Resistivity:</b>	>10 <sup>15</sup>
<b>Dielectric Strength (volts/mil):</b>	4200
<b>Surface Arc Resistance:</b>	Does not arc

\*0.002" (50 µm) film

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