**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):** 60” (1524mm)
- **Service Temperature: °F (°C):** -328 to 600 (-200 to 315)
- **Tensile Strength, typical* (psi):** 4800
- **Elongation, minimum (%):** 400
- **Dielectric Constant (60-10^8 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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