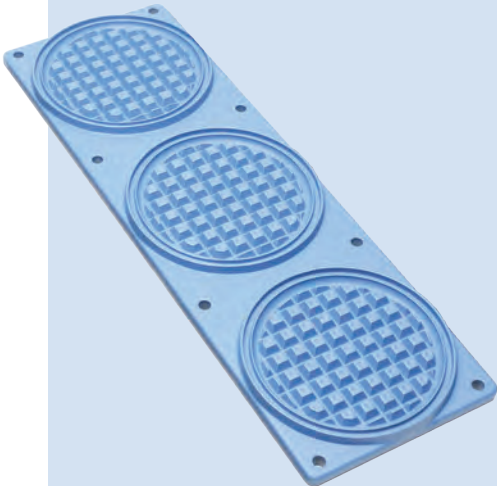


General Magnaplate

Smart Coating Solutions™ Worldwide

TYPICAL APPLICATIONS

- Conformal coating fixtures
- Extrusion dies
- Composite lay-up tools
- Potting molds
- Hoppers and augers
- Heat seal dies/platens
- Rotary cutter blades for dough
- Sealing plates for baby food and yogurt containers
- Scraper blades, slitter blades, pans, rollers
- Seal bars for cosmetics products
- Compression mold fixtures for manufacturing aerospace components
- Punches for battery manufacturing



LECTROFLUOR® 605

USDA/FDA-compliant coating provides non-stick properties to almost any metal

LECTROFLUOR® 605 is a USDA/FDA-compliant coating that provides non-stick properties to almost any metal. LECTROFLUOR® 605 was developed to withstand harsh cleaning agents and will help lower costs by reducing downtimes related to these issues. It has a maximum usage temperature of 550°F and a typical thickness range of 0.0005 to 0.002 inches.

CORROSION AND CHEMICAL RESISTANCE

Salt spray (salt fog) testing was conducted in accordance with ASTM B117. Results indicated that Lectrofluor® 605 provides up to 336 hours of salt spray resistance with a thickness of 0.001 inches. Due to the coating being solid-surfaced, 605 offers great resistance to a wide array of chemicals and cleaners.

COEFFICIENT OF FRICTION MEASUREMENTS

Static COF 0.076, Kinetic 0.051

Testing performed on the coating in accordance with ASTM D 1894-01 reveals very low coefficients of friction.

CONTACT ANGLE MEASUREMENTS

Advancing Contact Angle 124.4°

Contact angle measurements indicate the amount of surface energy present. The greater the angle, the lower the surface energy. In general, the greater the surface angle, the greater the release and ability to clean the surface.

TABER ABRASION TESTING

Taber Abrasion Data Weight Loss mg/500 cycles 30.6, Mg/1000 cycles 39.6

Taber abrasion testing was done in accordance with ASTM D 4060 using 1000 g load. Weight loss was recorded at 500 cycles and 1,000 taber abrasion cycles.

DIELECTRIC STRENGTH MEASUREMENTS

- Avg thickness 0.0014 in
- Avg breakdown voltage 1300V
- Avg dielectric strength 1000 v/mil

Testing was done in accordance with ASTM D149-09 (2013) Method A.