

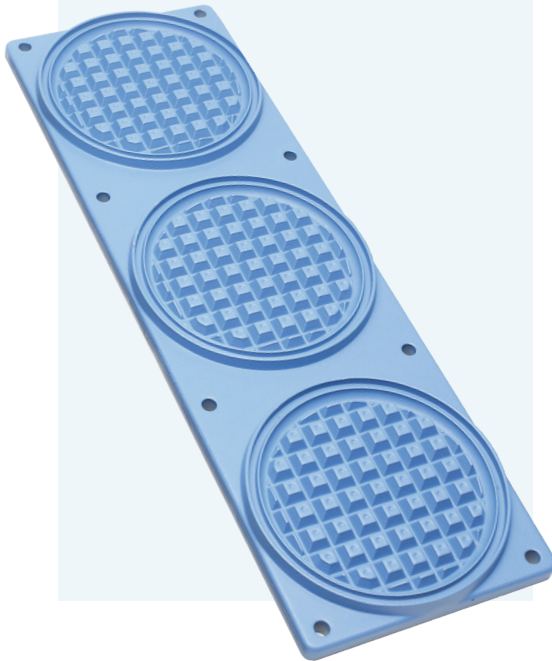


MAGNAPLATE

COATINGS ENGINEERED **FOR YOUR SUCCESS**

TYPICAL APPLICATIONS

- Conformal coating fixtures
- Extrusion dies
- Composite lay-up tools
- Potting molds
- Hoppers and augers
- Heat seal dies and platens
- Rotary cutter blades for dough
- Sealing plates for baby food and yogurt containers
- Scraper blades, slitter blades, pans, rollers
- Seal bars for cosmetic 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 inch.

CORROSION AND CHEMICAL RESISTANCE

LECTROFLUOR 605 can provide up to 336 hours of salt spray resistance when the coating's thickness is greater than 0.001 inch. 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 COF: 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. LECTROFLUOR 605's contact angle measurement is excellent, resulting in greater 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 1,000 g load. Weight loss was recorded at 500 cycles and 1,000 Taber abrasion cycles. Wheels were cleaned at the beginning of each test.

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 Method A.

