



# DUPONT™ 5477

## GLASS ENCAPSULANT

### PRODUCT DESCRIPTION

DuPont™ 5477 is a green screen printable, laser trimmable, and air-fireable G1 glass encapsulant for chip resistors.

### PRODUCT BENEFITS

- Optimized viscosity for higher printing speed
- Acid resistant - withstands acidic nickel plating conditions
- Lead and Cadmium-free\*
- G1 encapsulant for chip resistors

\*Lead and Cadmium “free” as used herein means that cadmium is not intentional ingredient in and is not intentionally added to the referenced product. Trace amounts however may be present.

### PROCESSING CONDITIONS

#### Printing

Print to a dried print thickness of 18 – 20µm with a 325-mesh stainless steel screen to give a minimum fired thickness of 10µm. The recommended printing speed is 6 – 8 in/sec. Stir sufficiently before using.

#### Drying

Prints should be allowed to level at room temperature for 5 – 10 minutes and then dried for 15 minutes at 150°C

#### Screens

- 325 – 200 Wire/inch stainless steel mesh
- 120 – 77 Thread/cm polyester mesh

#### Firing

Dried prints should be fired in a belt furnace. Use a 60-minute cycle with a peak temperature of 620°C.

#### Clean-up Solvent

Butyl carbitol acetate

### Composition Properties

Test	Properties
Viscosity (Pa.s) [Brookfield HBT, UC&SP, 10 RPM, 25°C]	120 – 180
Thinner	DuPont™ 8218
Shelf Life (months)	6

### STORAGE AND SHELF LIFE

Containers should be stored, tightly sealed, in a clean, stable environment at room temperature (<25°C). Shelf life of material in unopened containers is six months from date of shipment. Some settling of solids may occur and compositions should be thoroughly mixed prior to use.

### SAFETY AND HANDLING

For Safety and Handling information pertaining to this product, read the Material Safety Data Sheet (MSDS).



## **DUPONT™ 5477 GLASS ENCAPSULANT**

**FOR MORE INFORMATION ON DUPONT™ 5477 OR OTHER DUPONT MICROCIRCUIT MATERIALS PRODUCTS, PLEASE CONTACT YOUR LOCAL REPRESENTATIVE:**

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CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement," H-50102-5.

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