

# SunTronic UV Curing Dielectric Green DSU4605G

## Product Description

DSU4605G is a very flexible, green UV (Ultra-Violet) curing dielectric designed to be screen printed as an insulating layer for crossovers in membrane switches and a variety of electronic & printed circuitry constructions where flexibility is critical.

DSU4605G has excellent adhesion to glass and print-treated PET.

## Application and Processing

DSU4605G is supplied ready for use, but should be lightly stirred before use. If viscosity reduction is required, use a maximum of 2% of ER-UV05 thinner by weight.

DSU4605G is suitable for use on hand, semi-automatic or fully automatic screen printing machines. Polyester or Stainless screens with mesh count 196-305 threads/inch (77-120 threads/cm) can be used depending on desired ink film thickness. Printing two layers is recommended for maximum dielectric properties and to minimize voids. A total cured deposit of 0.75-2.0 mil may be required to meet specific insulation targets.

Typical Cured Deposits:

196 threads/inch (77 threads/cm): 0.75-1.0 mil

305 threads/inch (120 threads/cm): 0.3-0.5 mil

DSU4605G must be shielded from sunlight or high-intensity light to prevent on-screen curing during prolonged production stoppages.

Cleaning with ER-SOLV01 thinner followed by cleaning with Acetone is recommended. Relevant Safety Data Sheet (SDS) should be read carefully prior to use.

## Drying/Curing

DSU4605G can be cured with a 200-300 Watt/inch (80-120 Watt/cm) medium-pressure Mercury vapor arc lamps, or microwave initiated D-bulb equivalents. UV dosage required is 500-800 millijoules/cm<sup>2</sup>

## Storage

Store in sealed containers in a cool, dry place (10-25 °C/50-77 °F).

## Typical Properties

Volume Resistivity	>10 <sup>13</sup> Ω.cm
Breakdown Voltage (DC)	>100 kV/mm
Dielectric Constant, 1kHz	4.6
Dissipation Faction, 1kHz	0.055
Specific Gravity	1.16-1.18
Viscosity (Brookfield CAP @25 °C)	85-95 poise
Color	Green
Flashpoint (CC)	>200°C
Coverage	35-40 m <sup>2</sup> /kg/mil
Shelf-life	12 months

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