

SunTronic UV Curing Dielectric Green

DSU4606G

Product Description

DSU4606G is a 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.

DSU4606G has excellent adhesion to both treated and untreated PET. It also adheres to a variety of substrates including PC, PI, glass, and ITO.

Application and Processing

DSU4606G is supplied ready for use, but should be lightly stirred before use. If viscosity reduction is required, use a maximum of 2% of ER-UV06 thinner by weight.

DSU4606G 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): 0.6-0.8 mil
305 threads/inch (120 threads/cm): 0.3-0.5 mil

DSU4606G 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

DSU4606G 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. Optimum UV dosage should be around 650 millijoules/cm².

Storage

Store in sealed containers in a cool, dry place (10-25 °C/50-77 °F), away from direct heat and sunlight.

Typical Properties

Volume Resistivity	>10 ¹⁴ Ω.cm
Breakdown Voltage (DC)	3100 V/mil
Dielectric Constant, 1kHz	4.4
Dissipation Factor, 1kHz	0.087
Specific Gravity	1.26-1.27
Viscosity (Brookfield CAP @25 °C)	20-30 poise
Color	Green
Flashpoint (CC)	>200°C
Theoretical Coverage	32-35 m ² /kg/mil
Shelf-life	12 months

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