

SunTronic UV LED Curing Dielectric Green DSUL4605G-MT

Product Description

DSUL4605G-MT is the matte version of DSUL4605G. It is a very flexible, green 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. DSUL4605G-MT is designed for UV LED curing.

DSUL4605G-MT has excellent adhesion to glass and print-treated PET

Typical Properties

Volume Resistivity	$>10^{14} \Omega \cdot \text{cm}$
Breakdown Voltage (DC)	3000 V/mil
Specific Gravity	1.25-1.26
Viscosity (Brookfield CAP @25 °C)	55-65 poise
Color	Green
Flashpoint (CC)	$>200^{\circ}\text{C}$
Coverage	35-40 m ² /kg/mil
Shelf-life	12 months
Max. Service Temp.	175°C

Application and Processing

DSUL4605G-MT 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.

DSUL4605G-MT 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

DSUL4605G-MT 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

DSUL4605G-MT can be with a 8 Watt/cm² or higher energy LED unit with 395nm wavelength. The distance from lamp to substrate should be 5mm or less to ensure good cure. The conveyor belt speed is 25-50 feet/min.

Storage

Store in sealed containers in a cool, dry place (5-32 °C/40-90 °F).

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