

SILTRUST™ TSE3064H-UV DIELECTRIC POTTING MATERIAL

SILTRUST TSE3064H-UV gel is a two-component (1 to 1 mix ratio), lower viscosity, UV cure dielectric silicone material that may be used for electronics potting applications. Once mixed, it has shown to cure quickly with exposure to UV light, typically resulting into a soft rubber. A secondary cure mechanism can help curing of shadow areas within a few hours at room temperature. This product offers excellent protection for electronic components and assemblies from external humidity, mechanical shock and vibration.

KEY FEATURES AND TYPICAL BENEFITS

- Soft, low modulus elastomeric properties
- Convenient 1:1 mix ratio by weight
- Lower viscosity; easily pourable
- Outstanding stress relief; Mechanical shock/vibration dampening
- Excellent dielectric properties

- Dual cure system: UV cure and shadow cure at room temperature
- Primerless adhesion to plastics and metals

POTENTIAL APPLICATIONS

- Moisture and dust protection of electronic components
- Electrical and electronic potting, such as power modules and hybrid IC
- Potting of connectors

TYPICAL PROPERTIES

UNCURED PROPERTIES		
Appearance (Part A & B)		clear
Mix ratio by weight		1 : 1
Viscosity Part A	mPaxs	210
Viscosity Part B	mPaxs	230
Viscosity after mixing	mPaxs	230
Work Life @ 23°C	Minutes	> 5

CURED PROPERTIES (45s 100 mW/cm² + 16h 23°C)		
Appearance		Clear
Density (23°C)	g/cm ³	0.97
Hardness	Shore 00	40
Adhesion glass/PBT	MPa	0.2
CTE	ppm/C°	330
Volume resistivity	W·cm	1x10 ¹³
Dielectric strength	kV/mm	20
Impurities Na ⁺ K ⁺ Cl ⁻	ppm	<2

Typical properties are average data and are not to be used as or to develop specifications.

HANDLING AND SAFETY

- Materials such as water, sulfur, nitrogen compounds, organic metallic salts, phosphorus compounds, etc. contained in the surface of the substrate can inhibit curing. A sample patch should always be conducted before proceeding to determine compatibility.
- Curing is possible with both metal halide lamps or LED lamps (365nm). LED lamps with 405nm will also cure, but cure times will be significantly extended.
- Light in the UV-C range (< 280 nm) can impact the cure of the material and should therefore be avoided.
- Apply only on clean surfaces and remove any dust, oil and residues with a suitable cleaning process.
- Wear eye protection when handling uncured rubber as it can irritate eyes. In case of eye contact, immediately flush eyes well with water and contact a physician.

- Maintain adequate ventilation in the work place at all times.

STORAGE

- Store in a cool, dry place out of direct sunlight at temperature < 27°C
- Keep out of the reach of children

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