

SILTRUST™ TSE3064H-UV Dielectric Potting Material

Product Description

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 in 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

Typical Physical Properties

Uncured Properties	Value	Cured Properties (45s 100 mW/cm ² + 16h 23°C)	Value
Appearance (Part A & B)	clear	Appearance	Clear
Mix ratio by weight	1:1	Density (23°C) g/cm ³	0.97
Viscosity Part A (mPa·s)	210	Hardness Shore 00	40
Viscosity Part B (mPa·s)	230	Adhesion glass/PBT (MPa)	0.2
Viscosity after mixing (mPa·s)	230	CTE (ppm/°C)	330
Work life @ 23°C (min)	>5	Volume resistivity (Ω·cm)	1×10 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 product specifications.

Potential Applications

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

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement, or recommendation to practice any invention covered by any patent without authority from the owner of the patent.

Product Safety, Handling, and Storage

- Materials such as water, sulfur, nitrogen compounds, organic metallic salts, phosphorus compounds, etc., contained in the substrate surface 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

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment, if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in MyMomentive™ Order Management Site. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their respective applications.

Regulatory Compliance

Please Contact commercial.services@momentive.com to request regulatory and compliance information.

Technical Services

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