

SILTRUST™ TSE3064S DIELECTRIC GEL

SILTRUST **TSE3064S** is a two-component, lower viscosity, 1 to 1 mix ratio, dielectric silicone gel which is an excellent candidate for electronics potting applications. Once mixed, this product can cure at room temperature to a soft and tacky gel. The cure time can be accelerated with heat. The soft nature and cushioning effect of this product helps to provide excellent protection for electronic assemblies from external humidity, mechanical shock and vibration. Due to the lower viscosity and short curing time at room temperature, this material can run on high throughput assembly lines.

KEY FEATURES AND TYPICAL BENEFITS

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

- Room temperature or heat accelerated cure

POTENTIAL APPLICATIONS

- Electrical and electronic potting such as power modules and hybrid IC
- Potting of high voltage parts

TYPICAL PROPERTIES

UNCURED PROPERTIES		
Appearance (Part A & B)		clear
Mix ratio by weight		1 : 1
Viscosity Part A	mPaxs	490
Viscosity Part B	mPaxs	380
Viscosity after mixing	mPaxs	470
Work Life @ 20°C	Minutes	≥ 5
CURED PROPERTIES (30 minutes @ 70°C)		
Appearance		Clear
Density (23°C)	g/cm ³	0,97
Penetration (¼ cone x 10)	mm	57
CTE	ppm/C°	330
Thermal conductivity ^{*3}	W/mK	0.18
Volume resistivity	W·cm	2x10 ¹⁵
Dielectric strength	kV/mm	24
Dielectric constant (at 1MHz)		2.85
Dissipation factor (at 1MHz)		0.0001
Impurities ppm	Na ⁺ K ⁺ Cl ⁻	<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.
- 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
- Recommended storage condition is below 27°C
- Keep out of the reach of children

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