

# SH-putty3

## Thermal Conductive Putty

LiPOLY SH-putty3 is a one-part dispensable material with thermal conductivity 8.0W/m\*K. High deformation can fill small air gaps perfectly to remove tolerance. It also can overcome overflow and drying problems to increase the thermal conductivity. SH-putty3 is a great alternative to thermal grease and ideally suited for dispensing using the dispensing robot.

### ■ FEATURES

- / Thermal conductivity:8.0 W/m\*K
- / Bond line thickness:100-3000μm
- / Designed to remove manufacturing tolerances
- / Does not produce stress on delicate components
- / No vertical flow
- / Dispensable for serial manufacture
- / For any high compression and low stress application

### ■ TYPICAL APPLICATION

- / Between CPU and heat sink
- / Between a component and heat sink
- / High speed mass storage drives
- / Telecommunication hardware
- / Flat-panel displays
- / Set-top box
- / IP CAM

### ■ CONFIGURATIONS

- / Cartridges: 30ml, 55ml, 330ml
- / Bucket: 1kg, 25kg

### ■ PRESERVATION

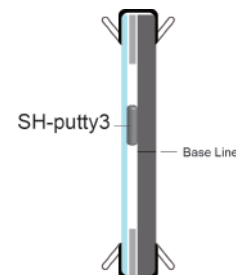
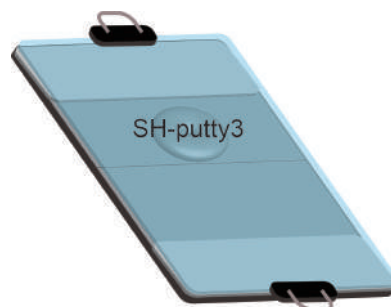
It can be preserved for 60 months under the condition of unopened and under room temperature 25°C.

### ■ TYPICAL PROPERTIES

PROPERTY	SH-putty3	TEST METHOD	UNIT
Color	Gray	Visual	-
Resin base	Silicone	-	-
Viscosity	17000	DIN 53018	Pa.s
Density	3.4	ASTM D792	g/cm <sup>3</sup>
Application temperature	-60~180	-	°C
Bond line thickness	100~3000	-	μm
Shelf life	60 months	-	-
ROHS & REACH	Compliant	-	-
ELECTRICAL			
Dielectric breakdown	12	ASTM D149	KV/mm
Volume resistivity	>10 <sup>13</sup>	ASTM D257	Ohm-m
THERMAL			
Thermal conductivity	8.0	ASTM D5470	W/m*K
Thermal impedance@10psi	0.039	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@30psi	0.035	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@50psi	0.031	ASTM D5470	°C-in <sup>2</sup> / W

### ■ VERTICAL RELIABILITY

Using 3.0mm pad as a gap control, put the putty between the aluminum and the glass panel mark the initial position. Then, place it in the oven with 125°C for 1,000 hours and observe its displacement after reliability test



Material no dropped or changed after high temperature aging testing

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