

# SH-putty3

## Thermal Conductive Putty

LiPOLY SH-putty3 is a one-part, dispensable thermally conductive putty. With a thermal conductivity from 8.0 W/m\*K this product can be used successfully to remove manufacturing tolerances. It is ideally suited for dispensing using the SH-putty3 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

### Typical Applications-

- For any high compression and low stress application
- 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.

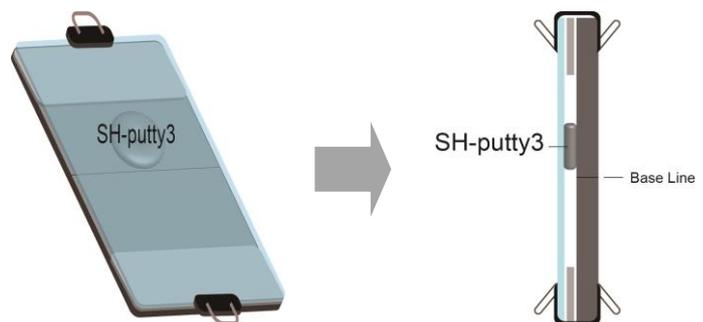


### Typical Properties-

PROPERTY	SH-putty3	TEST	UNIT
Color	Gray	Visual	-
Resin Base	silicone	-	-
Viscosity	20000	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	yes	-	-
ELECTRICAL			
Dielectric breakdown	300	ASTM D149	V/mil
Volume resistivity	>10 <sup>13</sup>	ASTM D257	Ohm-m
THERMAL			
Thermal Conductivity	8.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	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

#### Note:

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