# **S-putty**

## Thermal Conductive Putty

LiPOLY S-putty is a one-part dispensable material with thermal conductivity 3.5W/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. S-putty is a great alternative to thermal grease and ideally suited for dispensing using the dispensing robot.

#### **FEATURES**

- / Thermal conductivity:3.5 W/m\*K
- / Bond line thickness:100-1500µm
- / 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

S-putty	TEST METHOD	UNIT
Blue	Visual	-
Silicone	-	-
2000	DIN 53018	Pa.s
3.0	ASTM D792	g/cm³
-60~180	-	°C
100~1500	-	μm
60 months	-	-
Compliant	-	-
ELECTRICAL		
12	ASTM D149	KV/mm
>1013	ASTM D257	Ohm-m
THERMAL		
3.5	ASTM D5470	W/m*K
0.079	ASTM D5470	°C-in²/ W
0.071	ASTM D5470	°C-in²/ W
0.061	ASTM D5470	°C-in²/ W
	Blue Silicone 2000 3.0 -60~180 100~1500 60 months Compliant 12 >10 <sup>13</sup> 3.5 0.079 0.071	Blue Visual   Silicone -   2000 DIN 53018   3.0 ASTM D792   -60~180 -   100~1500 -   60 months -   Compliant -   12 ASTM D149   >101³ ASTM D257   3.5 ASTM D5470   0.079 ASTM D5470

#### VERTICAL RELIABILITY

Using 1.5mm 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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