

# S-putty5-s

## Thermal Conductive Putty

LiPOLY S-putty5-s is a one-part dispensable material with thermal conductivity 10.0 W/m\*K. High deformation can fill small air gaps perfectly to remove tolerance. It can also overcome spillage and drying issues to increase thermal conductivity, making it ideal for dispensing with dispensing robots.

### ■ FEATURES

- / Thermal conductivity:10.0 W/m\*K
- / Bond line thickness:200~3000μm
- / 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

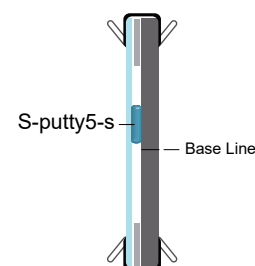
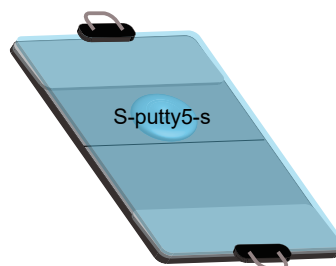
It can be preserved for 60 months under the condition of unopened and under room temperature 30°C.

### ■ TYPICAL PROPERTIES

PROPERTY	S-putty5-s	TEST METHOD	UNIT
Color	Blue	Visual	-
Resin base	Silicone	-	-
Viscosity	20000	DIN 53018	Pa.s
Flow Rate (30cc EFD tube, 2.35mm Orifice diameter, 90psi&60s)	23	By LiPOLY	g/min
Density	3.3	ASTM D792	g/cm <sup>3</sup>
Application temperature	-60~180	-	°C
Bond line thickness	200~3000	-	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	10.0	ASTM D5470	W/m*K
Thermal impedance@10psi / 60°C	0.035	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@30psi / 60°C	0.031	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@50psi / 60°C	0.027	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