

H-putty

Thermal Conductive Putty

LiPOLY H-putty is a one-part dispensable material with thermal conductivity 3.5 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: 3.5 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
- / 5G base station & infrastructure
- / EV electric vehicle

■ CONFIGURATIONS

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

■ PRESERVATION

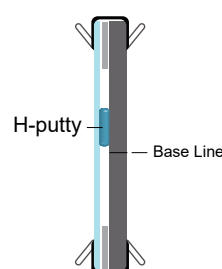
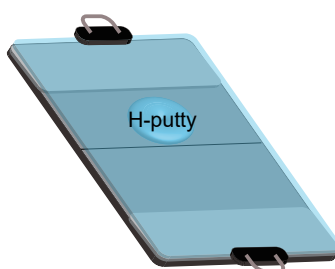
It can be preserved for 60 months under the condition of unopened and under room temperature 30°C.

■ TYPICAL PROPERTIES

| PROPERTY | H-putty | TEST METHOD | UNIT |
|--------------------------------|-------------------|-------------|------------------------|
| Color | Blue | Visual | - |
| Resin base | Silicone | - | - |
| Viscosity | 15000 | DIN 53018 | Pa.s |
| Density | 3.0 | ASTM D792 | g/cm ³ |
| 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 ¹³ | ASTM D257 | Ohm-m |
| THERMAL | | | |
| Thermal conductivity | 3.5 | ASTM D5470 | W/m*K |
| Thermal impedance@10psi / 60°C | 0.076 | ASTM D5470 | °C-in ² / W |
| Thermal impedance@30psi / 60°C | 0.072 | ASTM D5470 | °C-in ² / W |
| Thermal impedance@50psi / 60°C | 0.069 | ASTM D5470 | °C-in ² / 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