

N-putty2

Non-Silicone Thermal Conductive Putty

LiPOLY N-putty2 series is silicone-free and dispensable thermally conductive material with thermal conductivity 5.0W/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. N-Putty is a great alternative to thermal grease and ideally suited for dispensing using the dispensing robot.

■ FEATURES

- / Thermal conductivity:5.0 W/m*K
- / Bond line thickness:100-1000μm
- / Non-silicone resin materials
- / 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

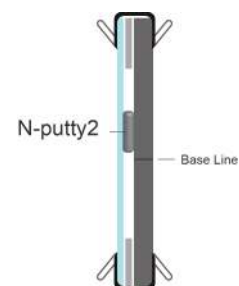
It can be preserved for 60 months under the condition of unopened and under room temperature 25°C.

■ TYPICAL PROPERTIES

| PROPERTY | N-putty2 | TEST METHOD | UNIT |
|-------------------------|-------------------|-------------|------------------------|
| Color | Gray | Visual | - |
| Resin base | Non-Silicone | - | - |
| Viscosity | 15000 | DIN 53018 | Pa.s |
| Density | 3.2 | ASTM D792 | g/cm ³ |
| Application temperature | -60~150 | - | °C |
| Bond line thickness | 100~1000 | - | 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 | 5.0 | ASTM D5470 | W/m*K |
| Thermal impedance@10psi | 0.045 | ASTM D5470 | °C-in ² / W |
| Thermal impedance@30psi | 0.040 | ASTM D5470 | °C-in ² / W |
| Thermal impedance@50psi | 0.036 | ASTM D5470 | °C-in ² / W |

■ VERTICAL RELIABILITY

Using 1.0mm 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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