N-putty



Non-Silicone Thermal Conductive Putty

LiPOLY N-putty series is silicone-free and dispensable thermally conductive 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. N-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:100-1000µm
- / 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.



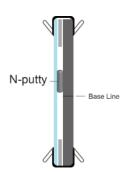
■ TYPICAL PROPERTIES

- THE TOAL TROP ENTIES		
N-putty	TEST METHOD	UNIT
Gray	Visual	-
Non-Silicone	-	-
15000	DIN 53018	Pa.s
3.0	ASTM D792	g/cm³
-60~150	-	°C
100~1000	-	μm
60 months	-	-
Compliant	-	-
12	ASTM D149	KV/mm
>10 ¹³	ASTM D257	Ohm-m
3.5	ASTM D5470	W/m*K
0.066	ASTM D5470	°C-in²/ W
0.059	ASTM D5470	°C-in²/ W
0.051	ASTM D5470	°C-in²/ W
	Gray Non-Silicone 15000 3.0 -60~150 100~1000 60 months Compliant 12 >10 ¹³ 3.5 0.066 0.059	Gray Visual Non-Silicone - 15000 DIN 53018 3.0 ASTM D792 -60~150 - 100~1000 - 60 months - Compliant - 12 ASTM D149 >10¹³ ASTM D257 3.5 ASTM D5470 0.066 ASTM D5470 0.059 ASTM D5470

■ 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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