



TG-NSP35 Non-Silicone Thermal Putty

Version 3.280420



Non-Silicone Thermal Putty

NSP-35 is a one-part, fully cured non-silicone gap filler which has been designed to reduce the time to market and overall cost of ownership for production processes. NSP-35 is provided fully cured, ready for dispensing which gives a significantly simpler design process and allows products to be brought to market with reduced lead-times. This product is also ideally suited for automation and T-Global offers complete turn-key solution to support this. This product provides:

- A low thermal impedance, when compared to traditional gap filler, for a wide range of gaps, which allows a greater degree of design flexibility to be achieved
- Proven reliability under conditions of thermal cycling, shock and vibration
- Deflects easily under low pressures which decreases stress on fragile or delicate components

Features

Easily dispensable from manual, semi-automatic or fully automatic systems

Full turn-key support from T-Global

Low thermal impedance

High thermal conductivity

Ultra-low compression forces

High tack on most surfaces and reworkable

Proven long term reliability

Available in cartridges (30cc, 50cc, 75cc, 180cc, 360cc, 600cc,) and pails (2.1kg, 5kg, 9kg, 25kg, 36kg)

Applications

Consumer electronics

Set-top boxes

IP routers

ECUs

Memory and Power modules

Properties

✓ REACH Compliant

✓ ROHS Compliant

Property	TG-NSP35	Unit	Test Method
Colour	Grey	-	Visual
Flow Rate, 30cc syringe with no tip, 2.54mm orifice 621 Kpa,	60	g/min	T-Global
Specific Gravity	3	-	ASTM D792
Typical bond line thickness	0.075	mm	T-Global
Thermal Conductivity	3.5	W/mk	ASTM D5470
Coefficient of Thermal Expansion	150	ppm/K	ASTM E831
Operating Temperature Range	-40 - 200	C	T-Global
Volume resistivity	2.15 x 10 ¹⁵	Ohm-cm	ASTM D257
Flammability Rating	V-0 (pending)	-	UL94
ROHS Compliant	Yes	-	T-Global
D4-10	0	PPM	ASTM E595
Shelf Life	60	months	TG

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TG-NSP35

Non-Silicone Thermal Putty

Standard Packaging

Size	Pot		Weight				
	Cartridges	30cc	50cc	75cc	180cc	360cc	600cc
Pails	2.1kg	5kg	9kg	25kg	36kg	-	

Installation Guidelines

For full turn-key support, including design, testing, supply and installation of dispensing systems suitable for prototyping to fully automated volume production please contact t-global.

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