



TG-NSP80 Non-Silicone Thermal Putty

Version 1.171219



Non-Silicone Thermal Putty

NSP-80 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-80 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-NSP80	Unit	Test Method
Colour	Grey	-	Visual
Flow Rate (30cc syringe, 0.08" orifice at 50 Psi @ 25°C)	0.5 - 1.5	g/min	T-Global
Specific Gravity	2.3	-	ASTM D-70
Minimum Bond Line Thickness	0.013	mm	T-Global
Thermal Conductivity	8.3	W/mK	ASTM D5470
Viscosity @ 25°C	1,400,000	1 sec ⁻¹ , cPs	Rheometer
Operating Temperature Range	-55 - +200	°C	T-Global
Bleed @ 200°C, 24hrs	0.3	%/Wt	ASTM 6814
Evaporation @ 150°C, 24hrs	0.2	%/Wt	ASTM 6814
ROHS Compliant	Yes	-	T-Global
Shelf Life	60	months	T-Global

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.

Standard Packaging

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

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