NYSTEIN Thermal Gel Flextein[®] TG870T

Technical Data Sheet

Product Description:

Flextein TG870T is a gel material with high thermal conductivity and low thermal resistance. It is designed for thermal modules or components with low interface clearance. The inherent tackiness can make it remain in position without any adhesive layer. Its excellent wetting and reliable performance can help the mating parts sufficient contact to improve the efficiency of heat transfer. It does not need to be die- cut and can be directly dispensed between the heaters and the heat sinks, and is ideal to replace thermal pad with excellent thermal conductivity and reduced cost.

Unlike thermally conductive grease, Flextein TG870T has no settling or bleeding issue, and is suitable for dispensing equipment.

Features & Benefits:

- Thermal conductivity 7.0 W/m ·K
- Ultra-low thermal resistance
- Excellent durability and reliability
- Low oil bleeding rate
- Easily dispensing, high flexibility



Typical Property Data:

Typical Property	TG870T	Unit	Test Method
Color	Grey	-	Visual
Min. Used Thickness	0.07	mm	Nystein
Extrusion Rate	20	g/min	90psi, 2.5mm
Thermal Conductivity	7.0	W/m ⋅ K	ISO 22007-2
Thermal Resistance	0.07 °C·cm²/W	@50 psi	ASTM D5470
Density	3.4	g/cm ³	ASTM D792
Dielectric Strength	≥ 6.0	KV/mm	ASTM D149
Volume Resistivity	≥ 1.0 × 10 ¹²	Ω·cm	ASTM D257
Operating Temp	-40 to 150	°C	Nystein
Flame Rating	V-0	-	UL 94
RoHS Compliance	Yes	_	Nystein

Typical Application:

- Consumer electronics, communication equipments
- Tablets, multimedia devices
- Desktops, portable computers and servers
- LED lighting equipments
- Printed circuit board components, enclosure connection



- Optical fibre communication equipments
- Automotive electronics
- Fragile components
- Military electronics equipments

Configuration Available:

- 30cc, 55cc, 300cc Syringe.
- 1kg, 10kg pail.

Storage conditions:

- Sealed and stored in dry place, away from light.
- Shelf life is 12 months at recommended storage temperature: 25°C (±3) and humidity: 50% (±10)
- The materials may be contaminated when unsealed, please do not mix the used material with the sealed products. Nystein does not assume any responsibility for contaminated products or conditions other than the required storage conditions.
- For additional information, please contact your appropriate sales, technical support, or customer service representative promptly.

Declare

The information provided in this Technical Data Sheet (TDS), including product use and application recommendations, is based on our knowledge and experience with Nystein China products. The data contained in this TDS is for informational purposes only and is believed to be reliable. To obtain official product specifications for a specific product end use, please contact the sales, Application Engineer or customer service person with whom you are in contact.

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