NYSTEIN GAP PAD Flextein® S51G

Technical Data Sheet

Product Description:

Flextein S51G is a 5.1 W/m·K and ultra soft thermal interface gap filler with great thermal performance and high compliance. The material yields extremely soft characteristics while maintaining elasticity and conformability. The Inherent natural tack on both sides assists in application and allows the product to effectively fill air gaps, enhancing the overall thermal performance. It is ideal for use to fill gaps between high-power,heat-generating components and related heat sinks, boards or chassis.

Flextein S51G is naturally tacky on both sides and requires only a light pressure during assembly to secure components without adhesive. The thickness of the product can be customized in the range of 0.5-10.0mm according to the needs of customers, and one-sided adhesive can also be selected for ease of use.

Features & Benefits:

- Thermal conductivity 5.1 W/m·K
- Super soft, high compression
- Good compression resilience
- V-0 Flame retardant grade
- Thickness range 0.02" (0.50mm) to 0.40" (10.0mm)

Property	Unit	Parameter	Test Method
Appearance		Light Yellow	Visual
Thickness	mm	0.5 to 10.0	ASTM D374
Thermal Conductivity	W/m · K	5.1	ISO 22007-2
Hardness	Shore OO	35	ASTM D2240
Density	g/cm ³	3.1	ASTM D792
Dielectric Strength	kV/mm	≥6.0	ASTM D149
Volume Resistivity	Ω·cm	≥ 1.0 × 10 ¹²	ASTM D257
Dielectric Constant	1MHz	7.4	ASTM D150
Oil seepage rate	%	< 1	125℃&48h
Service Temp	°C	-40 to 150	Nystein
Flame Rating		V-0	94 UL
RoHS		Yes	Nystein

Typical Property Data:



Typical Application:

- Computers and servers and their peripherals
- Smartphone, Tablet Multimedia
- High-end network equipment
- Optical Communication Modules
- Military Products

Configuration Available:

- Standard size 470×470 mm, sheet form and die-cut parts could be required.
- Standard thickness: 0.5mm (0.02") to 10.0 mm (0.40") in 0.5mm (0.02") increments. Can be customized according to customer needs
- Natural tack on one or both side option

Ordering Guide:

Flextein® <u>S51G-020</u> <u>47004700</u> <u>IR</u> <u>D1</u>



Storage conditions:

- Sealed at room temperature away from light, and stored in a dry place.
- Best Storage conditions: Temperature: 25°C (±3), Humidity: 50% (±10), can be stored for 12months.
- The materials taken out after opening may be contaminated during use, so please do notmix contaminated products with unopened products.Nystein assumes no responsibily for contaminated products or conditions other than the required storage conditions.
- For additional information, please contact your appropriate sales, technical support, orcustomer service representative promptly.

Declare

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