

NYSTEIN GAP PAD Flextein® S80F

Technical Data Sheet

Product Description:

Flextein® S80F is a gap filler material with ultra-low volatility and ultra-high thermal conductivity. With a thermal conductivity of up to 8.0W/m.k, it is a thermal conductive material designed for applications with high power consumption and high heat, and high demand for low volatile organic materials. In addition to the high thermal conductivity and low volatility of the material itself, S80F also has good compression and adhesion, easier to closely adhere to electronic components, while covering the micro-uneven surface to make full contact with the mating parts to improve the efficiency of heat transfer.

Flextein® S80F has natural adhesion on both sides and can be assembled by pressing gently and tightly to fix on the components without adhesive backing. The thickness of the product can be customised from 0.5-5.0mm.

Features & Benefits:

- Thermal conductivity 8.0 W/m·K
- No volatile condensation
- Super soft, high compression, high resilience
- Highly Reliable, Repeatable
- Available in thicknesses from 0.02" (0.5mm) to 0.20 (5.0mm)



Typical Property Data:

Property	Unit	Parameter	Test Method
Appearance	- -	Light grey	Visual
Thickness	mm	0.5 to 5.0	ASTM D374
Thermal Conductivity	W/m · K	8.0	ISO 22007-2
Hardness	Shore OO	45	ASTM D2240
Density	g/cm ³	3.2	ASTM D792
Dielectric Strength	kV/mm	≥6.0	ASTM D149
Oil penetration rate	%	< 1.0	125°C&48h
Volume Resistivity	Ω ·cm	≥ 1.0 × 10 ¹²	ASTM D257
Dielectric Constant	1MHz	5.0	ASTM D150
D3-D20	ppm	30	Nystein
Service Temp	°C	-40 to 150	Nystein
Flame Rating	- -	V-0	94 UL
RoHS	- -	Yes	Nystein

Typical Application:

- Computers and servers and their peripherals
- Smartphone, Tablet Multimedia
- High-end network equipment
- Optical Communication Modules
- Security Camera
- Drone Camera
- Advanced industrial control and medical electronics, mobile and network equipment
- Optical Module
- LED Lighting

Configuration Available:

- Standard size 230×230 mm, sheet form and die-cut parts could be required.
- 0.5 through 5.0 mm thick material available in 0.5mm increments
- Optional double-sided adhesive

Storage conditions:

- Sealed at room temperature away from light, and stored in a dry place.
- Best Storage conditions: Temperature: 25°C (±5), Humidity: 50% (±10), can be stored for 12months.
- The materials taken out after opening may be contaminated during use, so please do not mix contaminated products with unopened products. Nystein assumes no 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

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