

# NYSTEIN GAP PAD Flextein® S10000

## Technical Data Sheet

### Product Description:

Flextein S10000 silicone-free thermal conductive sheet is a product system for silicone-sensitive applications with low modulus, low volatiles, no oil penetration, and no contamination of wiring, making it highly adaptable to applications where silicon contamination is a concern (telecom, aerospace). It also has the characteristics of ultra-soft and high compression, which can cover the microscopic uneven surface and thus improve heat transfer by making full contact with the mating parts.

Flextein S10000 has natural adhesion on both sides and can be attached to components without adhesive backing by simply pressing firmly during assembly. The thickness of the product can be customized in the range of 0.5 to 4 mm, or single-sided adhesion is available for ease of use.

### Features & Benefits:

- Thermal conductivity 10.0 W/m · K
- Available in thicknesses from 0.02" (0.50mm) to 0.16" (4.0mm)
- Silicone free and RoHS Compliant
- Naturally tacky & re-workable
- UL 94 V-0



### Typical Property Data:

Property	Unit	Parameter	Test Method
Appearance	--	Grey	Visual
Thickness	mm	0.5 to 4.0	ASTM D374
Thermal Conductivity	W/m · K	10.0	ISO 22007-2
Hardness	Shore OO	70	ASTM D2240
Density	g/cm <sup>3</sup>	3.4	ASTM D792
Dielectric Strength	kV/mm	≥6.0	ASTM D149
Volume Resistivity	Ω · cm	≥ 1.0 × 10 <sup>12</sup>	ASTM D257
Dielectric Constant	@1MHz	6.8	ASTM D150
Service Temp	°C	-40 to 125	Nystein
Flame Rating	—	V-0	94 UL
RoHS	—	Yes	Nystein

### Typical Application:

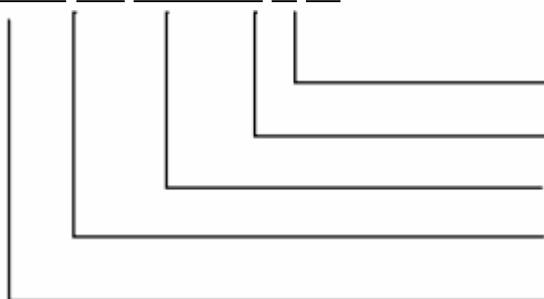
- Automotive Electronic Control Units (ECU's)
- Power Supplies & Semiconductors
- Memory & Power Modules
- Microprocessors / Graphics Processors
- Flat Panel Displays & Consumer Electronics

### Configuration Available:

- Standard size 230×230 mm, sheet form and die-cut parts could be required.
- Standard thickness: 0.5mm (0.02") to 4mm (0.16") in 0.5mm (0.02") increments. Can be customized according to customer needs.
- Natural tack on one or both side option

### Ordering Guide:

Flextein® S10000-020 23002300 IR D1



**None:** Double side tacky **D1:** Single side tacky **A1:** Single side adhesive

**R:** Rectangular; **IR:** Irregular

**Size:** 230mm\*230mm

**Thickness:** 2.0mm

**Series:** S10000

### 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 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

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.

We are not responsible for results obtained by others using methods beyond our control. This product may have a variety of applications and different operating conditions in your environment that are beyond our control. Therefore, Nystein China assumes no responsibility for the suitability of our products for the processes and conditions under which you will use them and for the intended applications and results. We strongly recommend that you conduct tests to confirm the suitability of our products prior to their use.

This product is protected by one or more of Nystein China Chinese patents or patent applications.