

NYSTEIN GAP PAD Flextein® S40

Technical Data Sheet

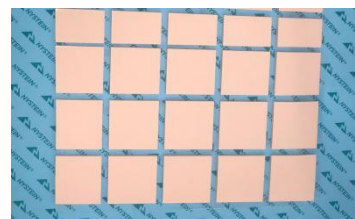
Product Description:

Flextein S40 is made of a soft polymer compounded with a high thermal conductivity filler that has a high thermal conductivity of 4.0 W/m·K while maintaining an ultra-soft hardness, Shoreoo 35, which gives the material excellent surface adhesion, compressibility, ultra-low stress, and snugness. Suitable for filling the gaps between electronic components, it can achieve sealing and cushioning effects, and can significantly improve the heat transfer function between components. After long distance transportation, the material will not be peeled off or shifted. It is an ideal thermally conductive interface material for cross-area electronic assemblies.

Flextein S40 has natural adhesion on both sides and can be attached to components without adhesive backing by simply pressing down firmly during assembly. The thickness of the product can be customized in the range of 0.3 to 10.0 mm, and single-sided adhesion is also available for ease of use.

Features & Benefits:

- Thermal conductivity 4.0 W/m· K
- The perfect combination of high performance and high cost performanceRoHS compliant
- Optional glass fiber reinforced and single-sided adhesive for easy die-cutting and assembly, reusable
- Available in thicknesses from 0.012" (0.3mm) to 0.40 (10.0mm)



Typical Property Data:

Property	Unit	Parameter	Test Method
Appearance	--	Light yellow	Visual
Thickness	mm	0.3 to 10.0	ASTM D374
Thermal Conductivity	W/m · K	4.0	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	6.5	ASTM D150
Service Temp	°C	-40 to 150	Nystein
Flame Rating	—	V-0	94 UL
RoHS	—	Yes	Nystein

Typical Application:

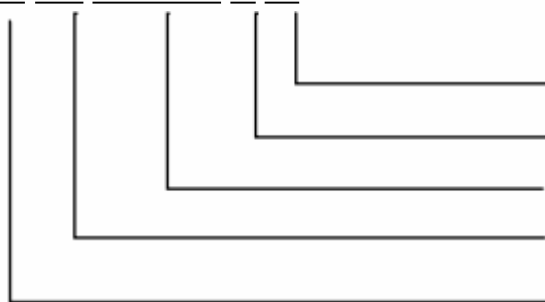
- Computers and servers and their peripherals
- Smartphone, tablet multimedia
- High-end network equipment
- Optical communication module

Configuration Available:

- Standard size 470×470 mm, sheet form and die-cut parts could be required.
- Standard thickness: 0.3mm (0.012") 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® S40-020 47004700 IR D1



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

R: Rectangular; **IR:** Irregular

Size: 470mm*470mm

Thickness: 2.0mm

Series: S40

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.

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