

NYSTEIN GAP PAD **Flextein® S22**

Technical Data Sheet

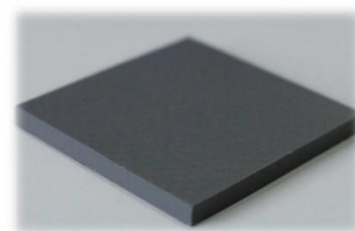
Product Description:

Flextein S22 is a soft and highly thermally conductive gap filling material. It has good compression properties and surface adhesion under low pressure and is mainly used in the markets of electronic communication devices, consumer electronics, advanced industrial control and medical electronics, mobile and network devices, high-speed mass storage devices, and LED lighting. The material is mainly composed of insulating ceramic powder filled with silicone rubber, and is a cost-effective thermally conductive interface filling material.

Flextein S22 has natural adhesion on both sides and can be secured to components without backing by simply pressing firmly during assembly. Glass fiber reinforced and single-sided adhesive options are available for easy die-cutting and assembly, and are reusable. The thickness of the product can be customized in the range of 0.3-10.0mm according to customer needs.

Features & Benefits:

- Thermal conductivity 2.2 W/m·K
- The perfect combination of high performance and high cost performance
- Highly reliable and reloadable
- Available in thicknesses from 0.012" (0.3mm) to 0.40 (10.0mm)



Typical Property Data:

| Property | Unit | Parameter | Test Method |
|----------------------|-------------------|--------------------------|-------------|
| Appearance | -- | Dark Grey | Visual |
| Thickness | mm | 0.3 to 10.0 | ASTM D374 |
| Thermal Conductivity | W/m · K | 2.2 | ISO 22007-2 |
| Hardness | Shore OO | 50 | ASTM D2240 |
| Density | g/cm ³ | 2.5 | ASTM D792 |
| Dielectric Strength | kV/mm | ≥6.0 | ASTM D149 |
| Volume Resistivity | Ω · cm | ≥ 1.0 × 10 ¹² | ASTM D257 |
| Dielectric Constant | 1MHz | 5.2 | ASTM D150 |
| Service Temp | °C | -40 to 150 | Nystein |
| Flame Rating | — | V-0 | 94 UL |
| RoHS | — | Yes | Nystein |

Typical Application:

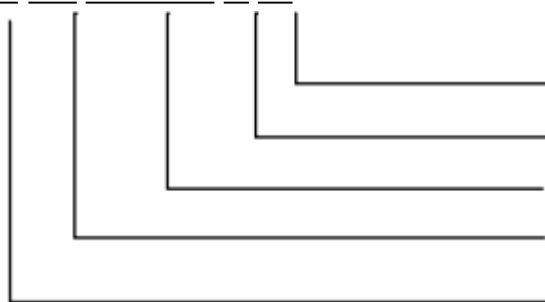
- Computers and servers and their peripherals
- Smartphone, tablet multimedia
- High-end network equipment
- Optical communication module

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® S22-020 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: S22

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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