

# NYSTEIN GAP PAD **Flextein® S15**

## Technical Data Sheet

### Product Description:

Flextein S15 is a combination of a high-fitting polymer with an ideal filler that maintains its economical shape, while the low modulus properties used to maintain maximum thermal performance allow it to be easily processed and handled. The adhesive properties on both sides of the product allow for excellent adaptation to component surfaces, thus minimizing the thermal impedance of the surface.

Flextein S15 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 1.5 W/m·K
- Low stiffness, high fit
- High adhesion surface to reduce contact thermal resistance
- Electrical insulation and V-0 flame retardant grade
- Available in thicknesses from 0.012" (0.3mm) to 0.40 (10.0mm)



### Typical Property Data:

Property	Unit	Parameter	Test Method
Appearance	--	Light Green	Visual
Thickness	mm	0.3 to 10.0	ASTM D374
Thermal Conductivity	W/m · K	1.5	ISO 22007-2
Hardness	Shore OO	45	ASTM D2240
Density	g/cm <sup>3</sup>	1.85	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	6.2	ASTM D150
Service Temp	°C	-40 to 150	Nystein
Flame Rating	—	V-0	94 UL
RoHS	—	Yes	Nystein



### Typical Application:

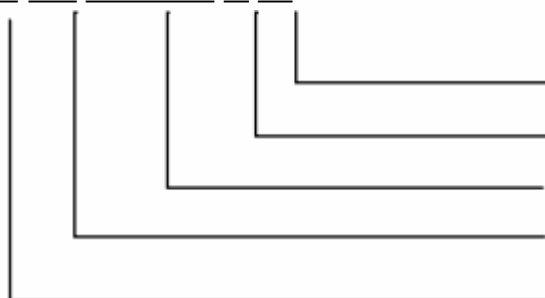
- Desktops, laptops and servers
- LED lighting equipment
- Electronic communication devices
- LCD and PDP flat panel displays
- Automotive electronics, battery cooling

### 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® S15-020 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:** S15

### 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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