

NYSTEIN GAP PAD Flextein® S15SD

Technical Data Sheet

Product Description:

Flextein S15SD is a super soft thermally conductive material made from silicone polymers filled with high thermal conductivity fillers, which has a thermal conductivity of 1.7 W/m.k and low density and low oil penetration. This product has a high cost performance ratio and is ideal for applications requiring low density and low oil penetration, such as new energy, energy storage and automotive electronics.

Flextein S15SD has an ultra-soft durometer and is available in double-sided adhesive, single-sided adhesive, and single-sided with a substrate for easy die-cutting and assembly. Simply press the adhesive side gently against the device during assembly to secure it to the device without the need for adhesive backing.

Features & Benefits:

- Thermal conductivity 1.7 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 pink	Visual
Thickness	mm	0.3 to 10.0	ASTM D374
Thermal Conductivity	W/m · K	1.7	ISO 22007-2
Hardness	Shore OO	< 20	ASTM D2240
Density	g/cm ³	1.8	ASTM D792
Dielectric Strength	kV/mm	≥6.0	ASTM D149
Volume Resistivity	Ω · cm	≥ 1.0 × 10 ¹³	ASTM D257
Dielectric Constant	1MHz	4.2	ASTM D150
Oil seepage rate	%	< 1	125°C&48H
Service Temp	°C	-40 to 150	Nystein
Operating temperature	°C	-60 to 200	Nystein
Flame Rating	—	V-0	94 UL
RoHS	—	Yes	Nystein

Typical Application:

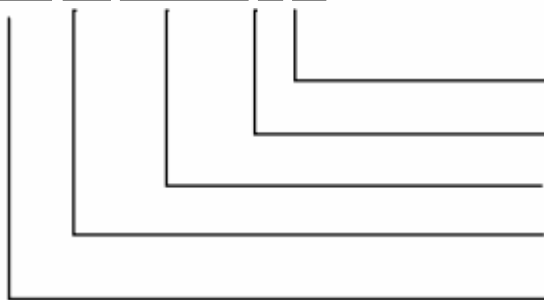
- Desktops, laptops and servers
- LED lighting equipment
- Electronic communication devices
- LCD and PDP flat panel displays
- Automotive electronics, battery cooling

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® S15SD-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: S15SD

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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