

NYSTEIN GAP PAD Flextein® S20D

Technical Data Sheet

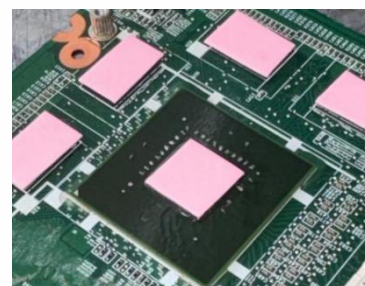
Product Description:

Flextein S20D 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 electronic communication devices, consumer electronics, advanced industrial control and medical electronics, mobile and network devices, new energy and LED lighting markets. The main component of the material is insulating ceramic powder filled silicone rubber, is a very cost-effective thermal interface filling material.

Flextein S20D 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's needs.

Features & Benefits:

- Thermal conductivity 2.0 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	--	Pink	Visual
Thickness	mm	0.3 to 10.0	ASTM D374
Thermal Conductivity	W/m · K	2.0	ISO 22007-2
Hardness	Shore OO	20~60	ASTM D2240
Density	g/cm ³	2.2	ASTM D792
Dielectric Strength	kV/mm	≥6.0	ASTM D149
Volume Resistivity	Ω · cm	≥ 1.0 × 10 ¹²	ASTM D257
Dielectric Constant	1MHz	4.5	ASTM D150
Oil seepage rate	%	< 1	125°C&48h
Service Temp	°C	-40 to 150	Nystein
Flame Rating	—	V-0	94 UL
RoHS	—	Yes	Nystein

Typical Application:

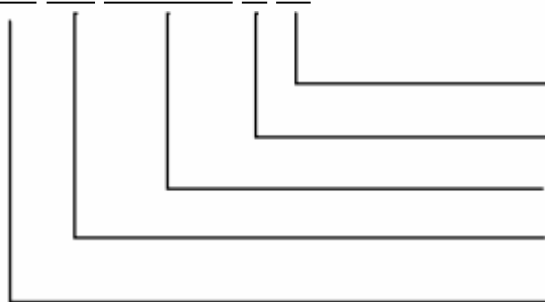
- Consumer Electronics, Communication Devices
- Advanced industrial control and medical electronics, mobile and network devices
- New Energy
- LED lighting equipment

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® S20D-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: S20D

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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