

# NYSTEIN GAP PAD **Flextein® S20F**

## Technical Data Sheet

### Product Description:

Flextein S20F is a non-volatile, super soft and highly thermally conductive gap filler. It is produced without volatile condensation mist under 150°C & 24h test conditions, which is especially suitable for application scenarios with high requirements on volatiles, such as security, optical modules, drones and other industries. Its ultra-soft hardness enables it to obtain good compression characteristics and surface lamination effect under low pressure, and it is also suitable for applications in the markets of electronic communication equipment, consumer electronics, advanced industrial control and medical electronics, mobile and network equipment, and LED lighting. The main component of the material is insulating ceramic powder filled with silicone rubber, which is a cost-effective thermal conductive interface filler material.

### Features & Benefits:

- Thermal conductivity 2.0 W/m·K
- Non-volatile condensation mist
- Super soft, high compression, high resilience
- Highly reliable, reloadable
- Available in thicknesses from 0.012" (0.3mm) to 0.40 (10.0mm)



### Typical Property Data:

Property	Unit	Parameter	Test Method
Appearance	--	White	Visual
Thickness	mm	0.3 to 10.0	ASTM D374
Thermal Conductivity	W/m · K	2.0	ISO 22007-2
Hardness	Shore OO	20	ASTM D2240
Density	g/cm <sup>3</sup>	2.75	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	5.1	ASTM D150
D3-D20	ppm	0	Nystein
Service Temp	°C	-40 to 150	Nystein
Flame Rating	—	V-0	94 UL
RoHS	—	Yes	Nystein

### Typical Application:

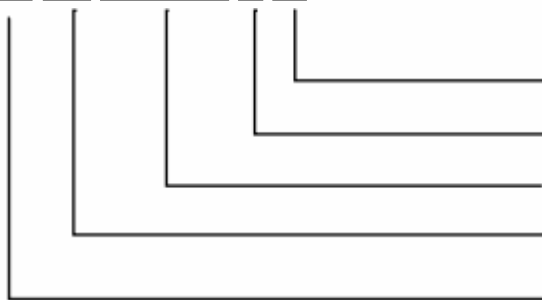
- Security Cameras
- Drone Camera
- Advanced Industrial & Medical Electronics, Mobile & Networking Devices
- Optical Modules
- LED lighting equipment

### 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
- Optional double-sided adhesive, can be backed according to demand

### Ordering Guide:

Flextein® S20F-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:** S20F

### 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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