

NYSTEIN GAP PAD Flextein® S10U

Technical Data Sheet

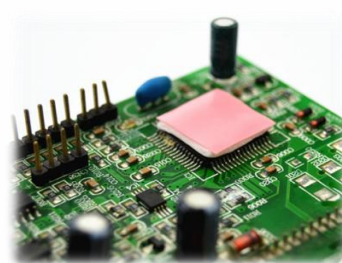
Product Description:

Flextein S10U is a cost-effective, thermal gap pad, has an ideal filler blend that gives it a low-modulus characteristic that maintains optimal thermal performance yet still allows for easy handling. The natural tack on both sides of the material allows for good compliance to adjacent surfaces of components, minimizing interfacial resistance. The filler allows the product to remain a cost effective solution where moderate thermal performance is acceptable.

Flextein S10U product side laminated high strength silicone insulation cloth, can achieve good resistance to puncture, shear and tear performance, and has good electrical insulation properties, can be used in heat sink and high voltage applications.

Features & Benefits:

- Thermal conductivity 1 W/m · K
- high fit, low modulus, low stiffness
- V-0 Flame retardant grade
- Good puncture, shear and tear resistance
- Available in thicknesses from 0.02" (0.5mm) to 0.40 (10.0mm)



Typical Property Data:

Property	Unit	Parameter	Test Method
Appearance	- -	White/Pink	Visual
Thickness	mm	0.5 to 10.0	ASTM D374
Thermal Conductivity	W/m · K	1.0	ISO 22007-2
Hardness	Shore OO	15	ASTM D2240
Density	g/cm ³	1.6	ASTM D792
Dielectric Strength	kV/mm	≥6.0	ASTM D149
Compression Deformation (%, specified pressure)	10 psi	25	ASTM D575
	50 psi	60	
	100 psi	86	
Volume Resistivity	Ω · cm	≥ 1.0 × 10 ¹²	ASTM D257
Dielectric Constant	1MHz	5.5	ASTM D150
Service Temp	°C	-40 to 150	Nystein
Flame Rating	- -	V-0	94 UL
RoHS	- -	Yes	Nystein

Typical Application:

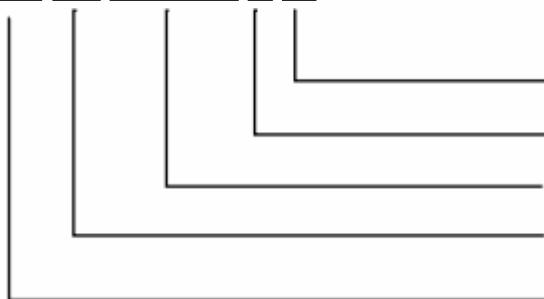
- Automotive Electronics, Battery Heat Dissipation
- Computer and Peripherals
- Electronic Communication Equipment
- Power converters
- Frames, housings and heat sinks requiring heat transfer

Configuration Available:

- Standard size 470×470 mm, sheet form and die-cut parts could be required.
- 0.50 through 10.0 mm thick material available in 0.5mm increments

Ordering Guide:

Flextein® S10U-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: S10U

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.

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