NYSTEIN GAP PAD Flextein® S10001

Product Description

Flextein S10001 silicone-free thermal conductive sheet is a product system for silicone-sensitive applications with low modulus, low volatiles, no oil penetration, and no contamination of wiring, making it highly adaptable to applications where silicon contamination is a concern (telecom, aerospace). It also has the characteristics of ultra-soft and high compression, which can cover the microscopic uneven surface and thus improve heat transfer by making full contact with the mating parts.

Flextein® S10001 has natural adhesion on both sides and can be attached to components by simply pressing down firmly during assembly without the need for a backing. The thickness of the product can be customized in the range of 0.5-4.0mm

Features & Benefits

- Thermal conductivity 10.0 W/m· K
- Silicone-free substrate for use in silicone-sensitive applications
- Excellent dielectric properties and thermal conductivity
- Available in thicknesses from 0.02”(0.50mm) to 0.16”(4.0mm）
- UL. 94 V-0

Typical Property Data

Property	Unit	Parameter	Test Method
Appearance	— —	Dark grey	Visual
Thickness	mm	0.5 to 4.0	ASTM D374
Thermal Conductivity	W/m · K	10.0	ISO 22007-2
Hardness	Shore OO	40	ASTM D2240
Density	g/cm^3	3.5	ASTM D792
Dielectric Strength	kV/mm	≥6.0	ASTM D149
Volume Resistivity	Ω ·cm	≥ 1.0×10^{10}	ASTM D257
Dielectric Constant	@1MHz	7.9	ASTM D150
Service Temp	°C	-40 to 125	Nystein
Flame Rating	——	V-0	94 UL
RoHS	——	Yes	Nystein

Typical Application

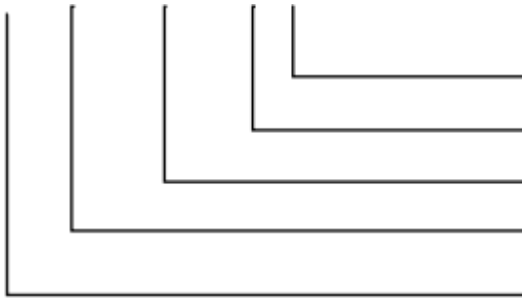
- Silicone-free environments and silicone-sensitive fields
- Optical communication modules
- Optical signal equipment
- Projection equipment
- Optical control equipment
- Advanced industrial control
- Medical electronics
- Aerospace

Configuration Available

- Standard size 230×230 mm, sheet form and die-cut parts could be required.
- Standard thickness: 0.5 mm (0.02") to 4.0 mm (0.16") in 0.5 mm (0.02") increments. Can be customized according to customer needs.
- Natural tack on both side option, backing with adhesive or PI film available on request.

Ordering Guide

Flextein® S10001-020 23002300 IR ___



None: Double side tacky **D1:** Single side tacky **A1:** Single side adhesive

R: Rectangular; **IR:** Irregular

Size: 230mm*230mm

Thickness: 2.0mm

Series: S10001

Storage conditions

- Sealed at room temperature away from light, and stored in a dry place.
- Best Storage conditions: Temperature: 25℃ (±3), Humidity: 50% (±10), can be stored for 12months.
- The materials taken out after opening may be contaminated during use, so please do notmix contaminated products with unopened products. KLEBER assumes no responsibily for contaminated products or conditions other than the required storage conditions.
- For additional information, please contact your appropriate sales, technical support, orcustomer service representative promptly.

Cautions：
The information provided in the Technical Data Sheet (TDS) (including product use and application recommendations) is based on our knowledge and experience of Kleber products. The data contained in this TDS is for reference only and is considered reliable. We cannot be held responsible for the results of others as a result of methods beyond our control. This product can have a variety of different applications and different working conditions in your environment, which is beyond our control. Therefore, Kleber assumes no responsibility for whether the product is suitable for your production process and conditions as well as the expected applications and results. We strongly recommend that you test the product before use to confirm the applicability of the product.

KLEBER
Shanghai：Room 601, Building 14, Youxi International High tech Park, No. 58 Wenxiang East Road, Songjiang District, Shanghai
+86 021-60709499
Dongguan：Building F, Yizhong Science and Technology Park, No. 3 Jinsha 2nd Road, Jinshadun Industrial Zone, Shuikou Village, Dalang Town, Dongguan City
+86 0769-82236901
Vietnam：Zone DI,Green IP-I Industrial Park,Yantian Town, Tairui District,TaipingProvince
USA：8 The Green, Suite A, Dover, Delaware
www.kleber-newmaterial.com