

## Thermal conductive silicone Double-sided-adhesive Tape KU-SAS20

Electrically insulating

 Thermal  
conductivity

**1,0** W/m<sup>2</sup>K

HEATPAD® KU-SAS20 is a Double-sided tacky tape with outstanding thermal interface characteristics and very high tackiness.

### Typical applications

Adhesion and thermal interface between LED backlight & lighting substrates and chassis.

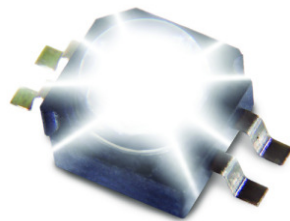
Adhesion and thermal interface for power transistors and for the heatsinks and radiators of semiconductors and electronic components.

### Properties

- Consists only of an adhesive layer, so it is easy to transfer onto large areas.
- Can be used over a wide temperature range
- Very flexible
- Easy to remove and reapply
- Clean and easy mounting with high process reliability

### Product availability

- In roll form
- In sheet form 300x400mm
- Stamped and cut according to customer specifications



### Technical specifications

Part	KU-	SAS20
General properties		
Material		Silicone
Colour		White
Thickness	µm	200 <sup>+15</sup>
Outgassing (LMW Siloxane, Generating Gas Analysis)	ppm	∑ D3 -D10 = 1
Mechanical and electrical properties		
Peeling strength <sup>1</sup>	N/cm	6,4
Breakdown Voltage (Voltage ramp) <sup>2</sup>	kV	6,5
Breakdown Voltage (Voltage steps) <sup>3</sup>	kV	5,0 at 25°C / 4,5 at 80°C
Thermal properties		
Thermal conductivity (ISO 22007-2)	W/mK	1,0
Thermal Resistance <small>(inch<sup>2</sup>) (according to an ISO 22007-2)</small>	K/W	0,48
Operating temperature	C°	-40 to +150

Picture can differ from  
the original product

Issue date 05.08.2009

We disclaim all liability for the correctness of the information contained herein. We reserve the right to make technical changes without notice.

<sup>1</sup> 180° Peeling strength with Al plate, at 23°C, peeling speed: 300mm/min, sample was boned using a 2kg roller, measurement follows after 10 min.

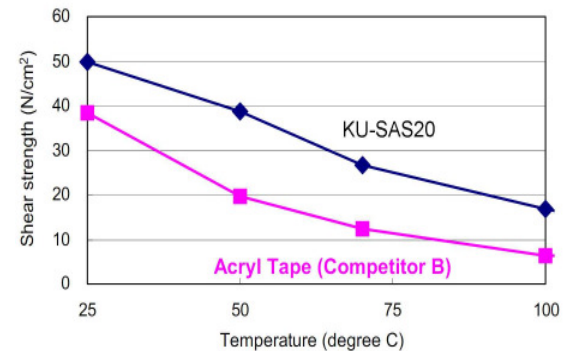
<sup>2</sup> Voltage ramp 1000 V/s

<sup>3</sup> Step by step voltage increments until dielectric breakdown

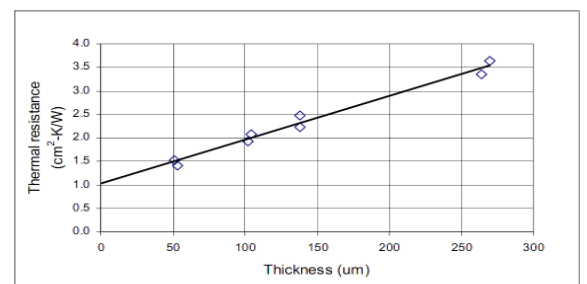
Handling instructions:

1. Peel of one side of release film.
2. Put a side of tape on a substrate edge and stick it. After that, stick the whole surface using a roll in order to prevent trapping air. It is recommended that leave about 30 seconds with this condition. During this period, KU-SAS20 stick to substrate strongly.
3. After about 30 seconds leaving time, peel off another side of release film. If leaving time is too short, KU-SAS20 may delaminate from substrates.
4. Stick another side of tape to object.

Shear strength vs. Temperature



Thickness vs. Thermal resistance (result)



Measured by Laser-Flash method.

Ordering example

**KU-SAS20-20x20mm**

Material / measurement