THERMAL CONDUCTIVITY
(W/m.°K)

1.9

electrically insulating

## Thermo-silicone interface material KU-CG

HEATPAD® KU-CG is a silicone film filled with thermal conductive ceramics for superior thermal conductivity, and reinforced with fiberglass. By implementing it, a very low total thermal resistance can be achieved. Its performance and flexibility make it the ideal interface material for most applications.

## **PROPERTIES**

- · High thermal conductivity
- · Very low thermal resistance
- · Very flexible
- · Fiberglass reinforced
- Clean and easy mounting, high process reliability
- · No thermal paste required
- · UL flammability rating: UL 94 V0

We disclaim all liability for the correctness of the information contained herein.

We reserve the right to make technical changes without notice.

For explanatory notes regarding voltage ramp/ step, see page 136

<sup>1</sup> Voltage ramp 1000 V/s

<sup>2</sup> Step-by-step voltage increments until dielectric breakdown

<sup>3</sup> Increase of thermal resistance through adhesive by about 0,1 °C/W

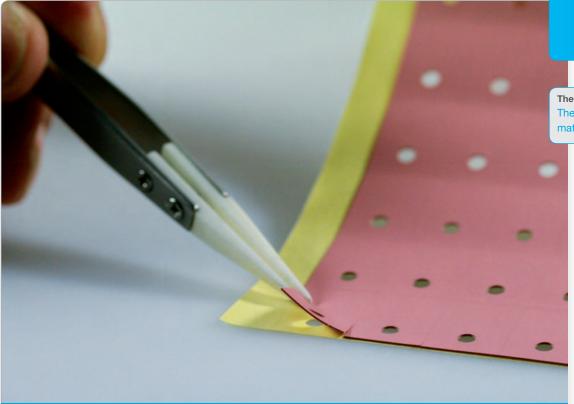
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PART	KU-	CG 20	CG 30	CG 45	CG 80		
GENERAL PROPERTIES							
Material		Fiberglass reinforced silicone					
Filler				Thermally conductive ceramic			
Colour		Salmon					
Gauge	mm	0.2 +0.05 to -0.05	0.3 +0.1 to 0	0.45 +0.05 to -0.05	0.8 +0.1 to 0		
Outgassing (LMW Siloxane)	ppm	∑ D3 - D10 = < 10					
MECHANICAL PROPERTIES							
Tensile strength	Мра	25.9	24.1	20.4	9.3		
Tear strength	kN/m	70	69	68	24		
Hardness (Shore A)		92	92	92	92		
ELECTRICAL PROPERTIES							
Breakdown voltage (Voltage ramp) <sup>1</sup>	V (AC)	5000	7000	10000	19999		
Breakdown voltage (Voltage steps) <sup>2</sup>	V (AC)	2000	3000	5000	10000		
Volume resistivity	Ωm	1.8 x 10 <sup>12</sup>	1.8 x 10 <sup>12</sup>	1.2 x 10 <sup>12</sup>	1.0 x 10 <sup>12</sup>		
Dielectric constant (1 kHz)		3.8	4.2	4.3	4.3		
Flammability rating		UL 94 V0	UL 94 V0	UL 94 V0	UL 94 V0		
THERMAL PROPERTIES							
Thermal conductivity	W/mK	1.9	1.9	1.9	1.9		
Thermal resistance <sup>3</sup> (inch <sup>2</sup> )	°C/W	0.30	0.45	0.65	1.05		
Operating temperature	°C	-60 to +200	-60 to +200	-60 to +200	-60 to +200		

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Image may differ from the original product.

## **PRODUCT AVAILABILITY**

- · All standard configurations (see page 128)
- · Non-adhesive or adhesive on one side
- In roll form up to 50 m (except KU-CG 80) according to customer specifications
- Stamped and cut according to customer specifications
- · In sheet form:

 CG 20
 320 mm x 1000 mm

 CG 30
 320 mm x 1000 mm

 CG 45
 320 mm x 1000 mm

 CG 80
 300 mm x 1000 mm

 Adhesive on one side
 320 mm x 1000 mm

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