

THERMAL CONDUCTIVITY  
(W/m·K)

ISO 22007-2

ASTM E1530

**3,3** | **5,0**

Electrically insulating



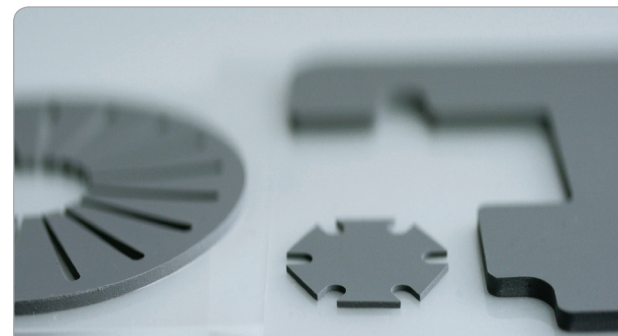
The Heatmanagement  
Company

# Thermally conductive soft-silicone film KU-TXS

HEATPAD® KU-TXS is a soft silicone film filled with thermally conductive ceramic for excellent thermal conductivity, superior elasticity and high dielectric strength. KU-TXS meets the highest requirements regarding thermal transfer. Total thermal transfer resistance is minimized by this material. It is self-adhesive on both sides.

## PROPERTIES

- Excellent thermal conductivity
- Very high dielectric strength
- Very soft and flexible
- Self-adhesive on both sides
- Gauges from 0.5 to 5mm
- Quick and easy handling, superior process reliability
- UL flammability rating: UL 94 VO (FileNr: E337894)



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We disclaim all liability for accuracy of this information. Technical detail is subject to change.

Image may differ from the original product

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

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

PART	KU-	TXS 50	TXS 100	TXS 200	TXS 300
<b>GENERAL PROPERTIES</b>					
Material		Soft silicone			
Filler		Thermally conductive ceramic			
Colour		Grey			
Gauge	mm	0,5 <sup>-0,05 bis +0,15</sup>	1,0 <sup>-0,15 bis +0,15</sup>	2,0 <sup>-0,2 bis +0,2</sup>	3,0 <sup>-0,2 bis +0,2</sup>
Density	g/cm <sup>3</sup>	3,1			
Outgassing (LMW Siloxane)	ppm	Σ D3 - D10 = 240 / Σ D11 - D20 = 450			
<b>MECHANICAL PROPERTIES</b>					
Hardness (Shore A)		32			
Hardness (Shore 00)		88			
Tensile strength	MPa	0,35			
<b>ELECTRICAL PROPERTIES</b>					
Dielectric strength <sup>1</sup> (Voltage ramp)	V/AC	8000	>15000	>15000	>15000
Dielectric strength <sup>2</sup> (Voltage steps)	V/AC	6000	>15000	>15000	>15000
Volume resistivity	Ωcm	1,0 x 10 <sup>10</sup>	1,0 x 10 <sup>10</sup>	1,0 x 10 <sup>10</sup>	1,0 x 10 <sup>10</sup>
<b>THERMAL PROPERTIES</b>					
Thermal conductivity (ASTM E1530)	W/mK	5,0			
Thermal conductivity (ISO 22007-2)	W/mK	3,3			
Thermal resistance (inch <sup>2</sup> )	°C/W	0,25	0,40	0,80	1,20
Operating temperature	°C	-60 to +180			

Issue date: 08.07.2015

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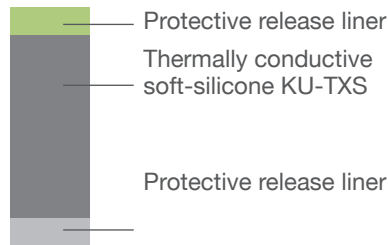
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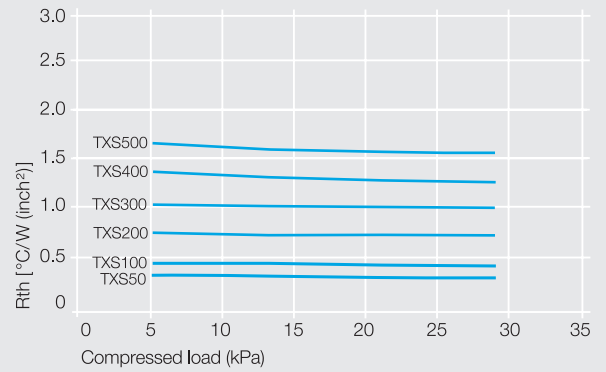
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CONSTRUCTION



PRESSURE DEPENDENCE

Thermal resistance vs. mounting pressure



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