

THERMAL CONDUCTIVITY
(W/m·°K)

1,1

Electrically insulating



The Heatmanagement
Company

High-performance thermally conductive thermo-silicone tubes, A-series

Kunze thermo-silicone tubes, A series, are made from a mixture of thermally conductive ceramic and silicone. Low total thermal transfer resistances can be achieved by their use. Their high dielectric strength makes them suitable for applications demanding electrical puncture resistance. They are also excellently suited for combination with Kunze POWERCLIPS®.

PROPERTIES

- Good thermal conductivity
- Low thermal transfer resistance
- Safe and complete electric insulation
- High flexibility
- Excellent dielectric strength
- Quick and clean handling, superior process reliability
- UL flammability rating: UL 94 VO (FileNo: 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

¹ Voltage ramp 1000 V/s

² Step-by-step voltage increments until dielectric breakdown

PART	KU-	A30	A45	A80
GENERAL PROPERTIES				
Material		Silicone		
Filler		Thermally conductive ceramic		
Colour		Grey		
Gauge	mm	0,3 ^{-0 to +0,1}	0,45 ^{-0,05 to +0,05}	0,80 ^{-0 to +0,1}
Density	g/cm ³	2,2	2,2	2,2
Outgassing (LMW Siloxane)	ppm	Σ D3 - 10 = <10		
MECHANICAL PROPERTIES				
Tensile strength	MPa	5,7	5,7	5,7
Tear strength	kN/m	8,0	8,0	8,0
ELECTRICAL PROPERTIES				
Breakdown Voltage (Voltage ramp) ¹	V (AC)	12000	15000	20000
Breakdown Voltage (Voltage steps) ²	V (AC)	7000	9000	13000
Dielectric Constant (1kHz)		4,8	4,8	4,8
Volume Resistivity	(Ωm)	1,0 x 10 ¹²	1,0 x 10 ¹²	1,0 x 10 ¹²
THERMAL PROPERTIES				
Thermal conductivity	W/mK	1,1	1,1	1,1
Thermal resistance (inch ²)	°C/W	0,53	0,74	1,14
Operating temperature	°C	-60 to +200	-60 to +200	-60 to +200

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