



# Keratherm - MT 103

### Flexible ceramic heat conducting and isolating tape



Thermoplastic elastomer tape with very good isolating behavior, excellent mechanical properties and thermal characteristics

#### **APPLICATIONS**

- **Automotives**
- High Voltage Technology
- **Power Converters** (AC-DC, DC-DC)

DISCLAIMER: Purchaser shall be solely responsible for determining the adequacy of the product for any and all uses which the purchaser shall apply the product, and the application of the product by the purchaser shall not be subject to any implied warranty of fitness for that purpose.

Properties	symbol	unit	MT 103
Color			red
Thermal Properties			
Thermal Resistance	$R_{th}$	K/W	0.39
Thermal Impedance	$R_{ti}$	°Cmm²/W Kin²/W	156 0.21
Thermal Conductivity	λ	W/mK	1.8
Electrical Properties			
Breakdown Voltage	$U_{d;ac}$	KV	10
Volume Resistivity		Ωcm	4.7 x 10 <sup>10</sup>
Dielectric Loss Factor (1khz)	$tan \ \delta$	1	1.0 x 10 <sup>-3</sup>
Dielectric Constant (1khz)	ε <sub>r</sub>	1	2.61
Mechanical Properties			
Thickness (±10%)		mm	0.280
Hardness		Shore A	70 – 80
Tensile Strength		N/mm <sup>2</sup>	2
Elongation		%	> 200
Physical Properties			
Application Temperature		°C	-40 to +125
Flameclass		UL 94	94V-0
Density		g/cm <sup>3</sup>	1.88
Possible Thickness		mm	0.280

### **Advantages of MT 103**

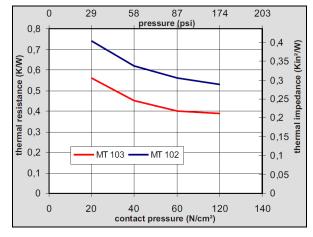
- Very good price/performance ratio
- Very good mechanical properties
- Very good insulating properties
- Silicone free

#### **Delivery forms:**

- 1.) Bulk good
- 2.) Optional with single sided adhesive coating
- 3.) Already punched geometries

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## Compressibilities of Keratherm® of MT-Film





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