

## Keratherm – MT 103

Flexible ceramic heat conducting and isolating tape



Thermoplastic elastomer tape with very good isolating behavior, excellent mechanical properties and good 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
<b>Thermal Properties</b>			
Thermal Resistance	$R_{th}$	K/W	0.39
Thermal Impedance	$R_{ti}$	$^{\circ}\text{Cmm}^2/\text{W}$	156
		$\text{Kin}^2/\text{W}$	0.21
Thermal Conductivity	$\lambda$	W/mK	1.8
<b>Electrical Properties</b>			
Breakdown Voltage	$U_{d;ac}$	kV	10
Dielectric Breakdown	$E_{d;ac}$	kV/mm	25
Volume Resistivity		$\Omega\text{m}$	$4.7 \times 10^{10}$
Dielectric Loss Factor (1khz)	$\tan \delta$	1	$1.0 \times 10^{-3}$
Dielectric Constant (1khz)	$\epsilon_r$	1	2.61
<b>Mechanical Properties</b>			
Thickness ( $\pm 10\%$ )		mm	0.280
Hardness		Shore A	70 – 80
Tensile Strength		N/mm <sup>2</sup>	2
Elongation		%	> 200
<b>Physical Properties</b>			
Application Temperature		$^{\circ}\text{C}$	-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

### Compressibilities of Keratherm® of MT-Film

