

Keratherm – MT 102

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 102
Color			Blue
Thermal Properties			
Thermal Resistance	R_{th}	K/W	0.53
Thermal Impedance	R_{ti}	$^{\circ}\text{Cmm}^2/\text{W}$	200
		Kin^2/W	0.28
Thermal Conductivity	λ	W/mK	1.1
Electrical Properties			
Breakdown Voltage	$U_{d;ac}$	kV	10
Dielectric Breakdown	$E_{d;ac}$	kV/mm	25
Volume Resistivity		Ωm	2.2×10^{10}
Dielectric Loss Factor (1khz)	$\tan \delta$	1	1.0×10^{-3}
Dielectric Constant (1khz)	ϵ_r	1	2.68
Mechanical Properties			
Thickness ($\pm 10\%$)		mm	0.250
Hardness		Shore A	65 – 75
Tensile Strength		N/mm ²	2
Elongation		%	> 1000
Physical Properties			
Application Temperature		$^{\circ}\text{C}$	-40 to +125
Flameclass		UL 94	94V-0
Density		g/cm ³	1.87
Possible Thickness		mm	0.250

Advantages of MT 102

- 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

