

Keratherm® - MT-Films

MT 102, MT 103

Applications:

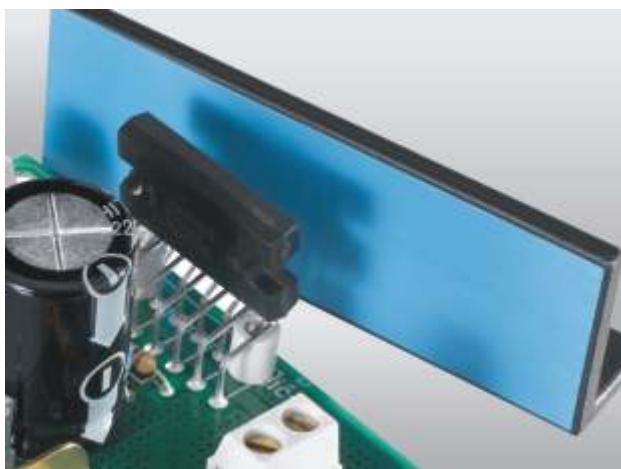
- Automotives
- High voltage technology
- Power converters (AC-DC, DC-DC)

Advantages:

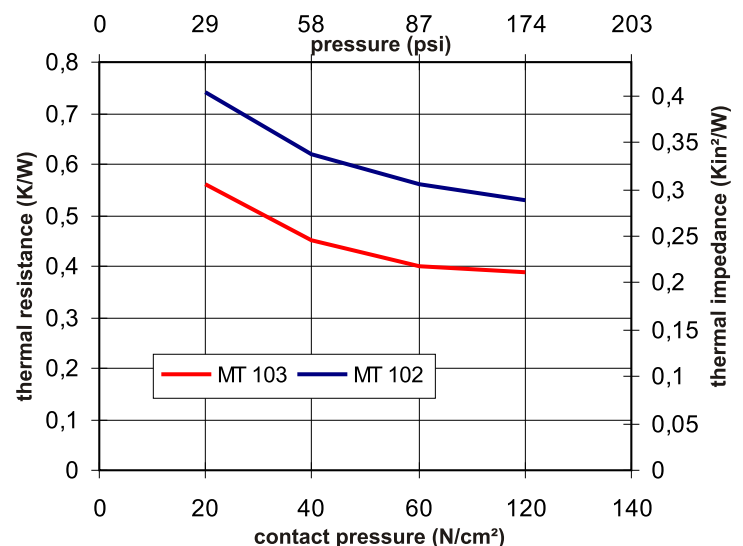
- very good mechanical properties
- very good insulating properties
- silicone free

Thermoplastic elastomer tape with very good isolating behaviour and excellent mechanical properties with at the same time good thermal characteristics.

Properties	Unit	MT 102	MT 103
Colour		blue	red
Thermal properties			
Thermal resistance R_{th}	K/W	0.53	0.39
Thermal impedance R_{ti}	$^{\circ}Cmm^2/W$	200	156
	Kin^2/W	0.28	0.21
Thermal conductivity λ	W/mK	1.1	1.8
Electrical properties			
Breakdown voltage $U_{d; ac}$	kV	10	10
Dielectric breakdown $E_{d; ac}$	kV/mm	> 30	> 30
Volume resistivity	Ωm	2.2×10^{10}	4.7×10^{10}
Dielectric loss factor $\tan \delta$ (1kHz)	1	1.0×10^{-3}	1.0×10^{-3}
Dielectric constant ϵ_r (1kHz)	1	2.68	2.61
Mechanical properties			
Measured thickness (+/-10%)	mm	0.250	0.280
Hardness	Shore A	65 - 75	70 - 80
Tensile strength	N/mm ²	2	2
Elongation	%	> 1000	> 200
Physical properties			
Density	g/cm ³	1.87	1.88
Application temperature	$^{\circ}C$	-40 to +125	-40 to +125
Flame rating	UL	94V-0	94V-0
Possible thickness*	mm	0.250	0.280



Compressibilities Keratherm® - MT 102, MT 103



Delivery forms:

Bulk good, optional with single sided adhesive coating
On rolls only with adhesive