MT 102 & MT 103

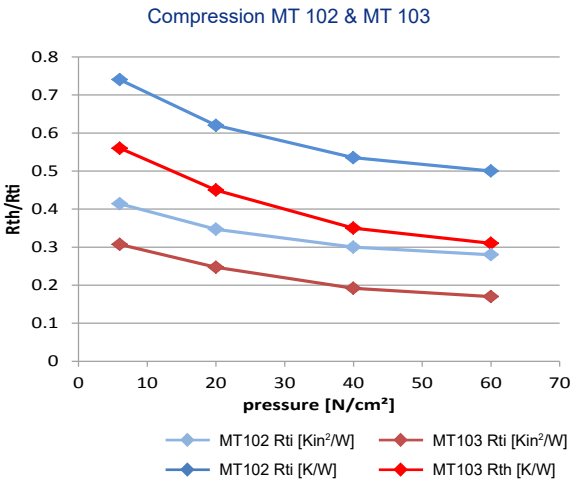
KERATHERM® silicone free MT-Films

Applications

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

Benefits

- Very good mechanical properties
- Liquid assembly
- Silicone free



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}	°Cmm²/W	200	156
	Kin²/W	0.28	0.21
Thermal conductivity λ	W/mK	1.1	1.8
Electrical Properties			
Breakdown voltage $U_{d;\,ac}$	kV	10.0	10.0
Dielectric breakdown $E_{d;\,ac}$	kV/mm	25.0	25.0
Volume resistivity	Ωm	2.2×10^{10}	4.7×10^{10}
Dielectric loss factor tan δ		1.0×10^{-3}	1.0×10^{-3}
Dielectric constant ε_r		2.7	2.6
Mechanical Properties			
Measured thickness (+/-10%)	mm	0.250	0.280
Hardness	Shore A	65 - 75	70 - 80
Tensile strength	N/mm²	2.0	2.0
Elongation	%	> 1000	200
Physical Properties			
Application temperature	°C	-40 to +125	-40 to +125
Density	g/cm³	1.87	1.88
Flame rating	UL-94	V-0	V-0
Possible thickness	mm	0.25	0.28

Thermoplastic elastomer tape with very good insulating behavior and excellent mechanical and good thermal characteristics.

For assistance contact
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Data for engineer guidance only.
Observed performance varies in application.
Engineers are reminded to test the material in application.

NOTE:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. KERAFOL® is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. All specifications are subject to change without notice. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded. In case KERAFOL® would be nevertheless held liable, on whatever legal ground, KERAFOL®'s liability will in no event exceed the amount of the concerned delivery. All KERAFOL® products are sold pursuant to the KERAFOL®'s Terms and Conditions of sale and delivery in effect from time to time, a copy of which will be furnished upon request.

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