

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

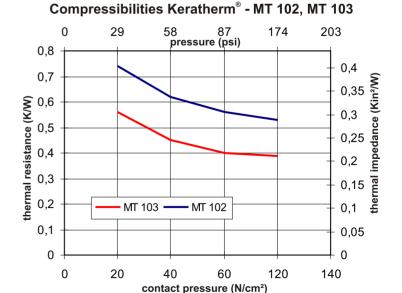
Thermoplastic elastomer tape with very good isolating behaviour and excellent mechanical properties with at the same time good thermal characteristics.

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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 Kin²/W	200 0.28	156 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	Ω m	2.2 x 10 ¹⁰	4.7 x 10 ¹⁰
Dielectric loss factor $\tan\delta$ (1kHz)	1	1.0 x 10 ⁻³	1.0 x 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/mm²	2	2
Elongation	%	> 1000	> 200
Physical properties			
Density	g/cm³	1.87	1.88
Application temperature	°C	-40 to +125	-40 to +125
Flame rating	UL	94V-0	94V - 0
Possible thickness*	mm	0.250	0.280



Delivery forms:

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



The data presented in this leaflet are in accordance with the present state of our knowledge. All statements, technical information and recommendations herein are based on tests we believe to be reliable. The customer is thereby not absolved from carefully checking all supplies immediately on receipt. The recommendations made in this catalogue should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection there with. We reserve the right to alter product constants within the scope of technical process or new developments. The recommendations do not absolve the customer from the obligation of investigating the possibility of infringement of third parties right and, if necessary, clarifying the position. Sellers' and manufacturer' only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable either in tort or contract for any loss or damage, direct or incidental, or consequential, including loss of profits or revenue arising out of the use or the inability to use a product. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer. last update: 06/2011