

## mica products

### Rigidiso® SMG RI 40510

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**Application:** Rigidiso® SMG RI 40510 was specially developed for a variety of heating elements with highest requirements of thermal and electrical insulation behaviour. It can be applied for all areas, that require excellent temperature resistance as well as mechanical and electrical properties (household and industry).

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**Components:** Rigidiso® SMG RI 40510 is made with a minimum muscovite content of 90% which is impregnated with a high-temperature resistant silicone binder.

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**Delivery forms:** Rigidiso® SMG RI 40510 can be delivered in thicknesses of 0,1 – 1,9 ( $\pm 0,05$ ) mm. The standard dimensions are 1000 mm width and max. 2400 ( $\pm 1,0$ ) mm length. If needed, stripes or die-cut parts acc. to drawings are dimensions can be delivered. Other delivery forms upon customer request.

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**Processing:** Rigidiso® SMG RI 40510 can be die-cut or cut. Die-cut-tools should be equipped with a hold-down system.

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## Rigidiso® SMG RI 40510

Properties	Test method	Unit	Value
Mica content	IEC 60371-2	%	Min. 90
Binder content (Silicone)	IEC 60371-2	%	Max. 10
Raw density	IEC 60371-2	g/cm <sup>3</sup>	2,15
Temperature resistance Long-term short-tem		°C	500 800
Tensile strength	ISO 527	N/mm <sup>2</sup>	140 – 150
Flexural strength	ISO 178	N/mm <sup>2</sup>	200
Water absorption	ISO 62	%	<1
Dielectric strength	IEC 60243 at 20°C	kV/mm	>20
Insulating resistance At 23°C At 550°C	IEC 60093	Ω/cm	10 <sup>17</sup> 10 <sup>12</sup>
Ignition loss At 500°C At 700 °C	IEC 60371-2	%	<1
Tracking resistance			KA 3c
Expansion Vertical Parallel			100 x 10 <sup>-6/K</sup> 10 x 10 <sup>-6/K</sup>

**Trademark information:** Rigidiso® is a registered trademark of company Dr. Dietrich Müller GmbH, Germany.

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**Please note:**

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.

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