

mica products

Rigidiso® SPG RI 40511

Application: Rigidiso® SPG RI 40511 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).

Components: Rigidiso® SPG RI 40511 is made with a minimum muscovite content of 90% which is impregnated with a high-temperature resistant silicone binder.

Delivery forms: Rigidiso® SPG RI 40511 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.

Processing: Rigidiso® SPG RI 40511 can be die-cut or cut. Die-cut-tools should be equipped with a hold-down system.

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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 ³	2,15
Temperature resistance			
Long-term		°C	700
short-tem			1000
Tensile strength	ISO 527	N/mm ²	100 – 110
Flexural strength	ISO 178	N/mm ²	170
Water absorption	ISO 62	%	<1
Dielectric strength	IEC 60243 at 20°C	kV/mm	>20
Insulating resistance			
At 23°C	IEC 60093	Ω/cm	10 ¹⁷
At 550°C			10 ¹²
Ignition loss			
At 500°C	IEC 60371-2	%	<1
At 700 °C			<2
Tracking resistance			KA 3c (VDE 0303/1)
Expansion			
Vertical			100 x 10 ^{-6/K}
Parallel			10 x 10 ^{-6/K}

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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