

## mica products

### Rigidiso® FMG RI 40512

---

**Application:** Rigidiso® FMG RI 40512 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). Rigidiso® FMG RI 40512 can be formed into tubes at room temperature, if heated to its max. temperature of 150°C for max. 1 minute, its flexibility can be improved.  
Classification UL94 (94 V-0)

---

**Components:** Rigidiso® FMG RI 40512 is made with a minimum muscovite content of 92% which is impregnated with a high-temperature resistant silicone binder.

---

**Delivery forms:** Rigidiso® FMG RI 40512 can be delivered in thicknesses of 0,1 – 6,0 mm. The standard dimensions are 1000 mm width and max. 2400 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® FMG RI 40512 can be die-cut or cut. Die-cut-tools should be equipped with a hold-down system.

---

Dr. Dietrich Müller GmbH

## Rigidiso® FMG RI 40512

Properties	Test method	Unit	Value
Mica content	IEC 60371-2	%	Min. 92
Binder content (Epoxy resin)	IEC 60371-2	%	Max. 8
Raw density	IEC 60371-2	g/cm <sup>3</sup>	1,8 – 1,9
Temperature resistance Long-term short-tem		°C	500 800
Oxygen index	ASTM-02583		90
Dielectric strength	IEC 60243 at 20°C	kV/mm	>20
Thermal conductivity At 200°C At 400°C		W/mK	Approx. 0,20 Approx. 0,35
Expansion Vertical parallel			60 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.

**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.

Dr. Dietrich Müller GmbH