

Dr. Dietrich Müller GmbH, Zeppelinring 18, D-26197 Ahlhorn

Electrical Insulation Materials

Rigidiso[®] FMG RI 40512

Application: Rigidiso[®] FMG RI 40512 sheets are designed for providing outstanding thermal and electrical insulation for various heating elements used in household and industrial appliances such as hair dryers, tumble dryers, strip heaters,... and for all other applications where excellent resistant to thermal, mechanical and electrical properties are required. Rigidiso[®] FMG RI 40512 sheets can be formed into tubular shapes at room temperature. Heating up Rigidiso[®] FMG RI 40512 sheets to a maximum temperature of 150°C for max. 1 minute will result in an improved flexibility for applications which require optimum conformability.

Composition: Rigidiso[®] FMG RI 40512 sheets consist of minimum 92% Muscovite alternatively Phlogopite impregnated with an outstanding high temperature resistant flexible silicone resin. Fire resistance classification UL94 (94 V-0).

Supply Form: Thickness: 0.10 – 1.50 mm.
Size: 1000 mm width, max. 2400 mm length.
Customized strips or punched parts according to customers drawings and/or requirements.

Processing: Rigidiso[®] FMG RI 40512 sheets can be easily punched, or sheared. Tools for punching precise parts should be provided with spring loaded hold-down plates.

Stand June 2011

Zeppelinring 18 | D-26197 Ahlhorn | Tel.: +49 (0) 4435 97 10 10 | Fax: +49 (0) 4435 97 10 11
info@mueller-ahlhorn.com | www.mueller-ahlhorn.com | Sitz der Gesellschaft: Ahlhorn
Geschäftsführer: Heinz-Jürgen Siebert | AG Oldenburg: HRB 209026 | Ust. ID-Nr.: DE 295969093
St.-Nr.: 68/207/07677 | Zertifiziert nach DIN EN ISO 9001:2008 | UL anerkannter Repacker E341377

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- Elektroisierstoffe
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Technical Data	Standard	Unit	Tech. value
Mica Content	IEC 60371-2	%	min. 92
Silicone Binder Content	IEC 60371-2	%	max. 8
Density	IEC 60371-2	g/cm ³	1.8 – 1.9
Heat Resistance In Continuous Service:		°C	500
In Intermittent Service		°C	800
Qxygen index	ASTM-02583		90
Dielelectric Strength	IEC 60243 at 20°C	KV/mm	>20
Thermal Conductivity at 200 °C		W/mK	ca. 0.20
at 400 °C		W/mK	ca. 0.35
Thermal Expansion Perpendicular			60 x 10 ⁻⁶ /°K
Parallel			10 x 10 ⁻⁶ /°K

Brand Information: Rigidiso[®] is a registered brand name of the company Dr. Dietrich Müller GmbH, Ahlhorn.

Information: All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application. Dr. D. Müller GmbH makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. Dr. D. Müller GmbH only obligations are those in the Standard Terms and Conditions of Sale for this product and in no case will Dr. D. Müller GmbH be liable for any incidental, indirect or consequential damages arising from the sale, resale, use, or misuse of the product. Dr. D. Müller GmbH Specifications are subject to change without notice. In addition, Dr. D. Müller GmbH reserves the right to make changes in materials or processing without notification to the Buyer, which do not affect compliance with any applicable specification.

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