

Laminates

Rigidiso® RI 40801

Composition: Rigidiso® RI 40801 is a round tube which is made of glass cloth impregnated with epoxy resin.

Rigidiso® RI 40801 meets the following standards:

EN 61212 EP GC 22
DIN 7735 HGW 2375.4

Property: Rigidiso® RI 40801 has very good mechanical, thermal and electrical properties, is environmentally neutral, asbestos-, dioxin-, cadmium- and halogen-free. Rigidiso® RI 40801 is in insulation class H (180°C). Rigidiso® RI 40801 is designed in accordance with flammability class UL 94 level HB.

Application: Rigidiso® RI 40801 is used in all areas of the electro industry.

Standard colour: Rigidiso® RI 40801 is delivered in green colour as standard.

Delivery form: Rigidiso® RI 40801 can be delivered as tube in different thicknesses and length and it can also be delivered as cut. Furthermore it can be equipped with a special resin to increase the comparative tracking index to 600.

Storage conditions: Rigidiso® RI 40801 can be stored unlimited under normal conditions (20°C, 50% relative air humidity).

Dr. Dietrich Müller GmbH

Rigidiso® RI 40801

Property	Test method	Unit	Value
Density	DIN 53479	g/cm ³	1,7 – 1,9
Water absorption	IEC Publ.85	mg/cm ²	1,5
Dielectric strength, parallel	-	kV/3mm	40
Dielectric strength, vertical	-	kV/3mm	30
Temperature resistance	VDE 0304/2	°C	155
Layer adhesion	-	MPa	200
Volume resistivity	DIN 53482	Ω	1 x 10 ¹⁰
Electrical resistance parallel to layer	DIN 53481	kV	40
Electrical resistance layer direction	DIN 53481	kV	30
Comparative tracking index	IEC 112	CTI	100
Flexural strength untreated at 23°C	DIN 53452	MPa	300
Elasticity module	DIN 53457	N/mm ²	1,8 x 10 ³
Tensile strength	DIN 53455	MPa	200
Compressibility	DIN 53454	N/mm ²	150
Pressure resistance	DIN 53454	MPa	150
Resistance between plugs after 24 hours, water storage at 23°C	DIN 53482	Ohm	10 ¹²
1 Minute test voltage in slice orientation at 90°C after pre-treatment	DIN 53481	kV	40
1 Minute test voltage vertical to slice orientation at 90°C after pre-treatment	DIN 53481	kV	40

Dr. Dietrich Müller GmbH

Rigidiso® RI 40801

Thickness	0.3	0.5	0.8	1.0	1.5	2.0	2.5	3.0	3.5	4.0
Availability	○	●	●	●	●	●	●	●	●	●
Thickness	4.5	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0
Availability	●	●	●	●	●	●	●	●	●	●
Thickness	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	25.0
Availability	●	●	●	●	●	●	●	●	●	●
Thickness	30.0	35.0	40.0	45.0	50.0	60.0	70.0	80.0	90.0	100.0
Availability	●	●	●	○	○	○	○	○	○	○

- Basic stock material
- Delivery time basic material: 2 weeks

Trademark information: Rigidiso® is a registered trademark of the 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