

Laminates

Rigidiso® RI 40700

Composition: Rigidiso® RI 40700 is a round tube which is made of cotton cloth impregnated with phenolic resin.

Rigidiso® RI 40700 meets the following standards:

EN 61212 PF CC 22

DIN 7735 HGW 2085

Property: Rigidiso® RI 40700 is in insulation class E (120°C), furthermore it has very good mechanical properties, is environmentally neutral, asbestos-, dioxin-, cadmium- and halogen-free. Rigidiso® RI 40700 is designed in accordance with flammability class UL 94 level HB.

Application: Rigidiso® RI 40700 is used as construction material with high requirements to the insulation properties.

Standard colour: Rigidiso® RI 40700 is delivered in brown colour as standard.

Delivery form: Rigidiso® RI 40700 can be delivered as tube in different thicknesses. Furthermore it can be equipped with a special resin to increase the comparative tracking index to 600.

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Storage conditions: Rigidiso® RI 40700 can be stored unlimited under normal conditions (20°C, 50% relative air humidity).

Property	Test method	Unit	Value
Density	DIN 53479	g/cm ³	1.15 – 1.35
Pressure resistance	DIN 53454	Mpa	40
Layer adhesion	-	Mpa	90
Elasticity module	DIN 53457	N/mm ²	6000
Coefficient of friction against steel	-	μ	0.25
Water absorption	-	mg/cm ²	10
Temperature resistance	VDE 0304/2	°C	120
Ball hardness vertical to layer	-	N/mm ²	130
Ball hardness parallel to layer	-	N/mm ²	115
Dielectric strength, vertical	-	kV/3mm	10
Flexural strength untreated at 23°	DIN 53452	MPa	80
Tensile strength	DIN 53455	MPa	50
Resistance between plugs after 24 hours, water storage at 23°C	DIN 53482	Ohm	10 ⁸
1 Minute test voltage in slice orientation at 90°C after pre-treatment	DIN 53481	kV	5
1 Minute test voltage vertical to slice orientation at 90°C after pre-treatment	DIN 53481	kV	10
Comparative tracking index	IEC 112	CTI	100

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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.

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