

Laminates

Rigidiso® RI 40901

Composition: Rigidiso® RI 40901 is a solid rod made of epoxy-resin and glass fabric and meets the following standards:

IEC 60893 EP GC 202
DIN 7735 HGW 2372.1

Properties: Rigidiso® RI 40901 is very well insulating until insulation class B (130°C), furthermore it meets very good mechanical properties. Rigidiso® RI 40901 is designed in accordance with flammability class UL 94 level V-1.

Application: Rigidiso® RI 40901 is used as construction material with higher requirements to the insulation properties.

Delivery forms: Rigidiso RI® 40901 is available as solid rods in different thicknesses. Rigidiso RI® 40901 is available in a brown colour.

Storage conditions: Rigidiso® RI 40901 is storable unlimited under normal conditions (20°C, 50% relative air humidity).

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Property	Test method	Unit	Value
Density	ISO 1183/A	g/cm ³	1.7 – 1.9
Flexural strength	ISO 178	MPa	350
Elasticity module	ISO 178	MPa	18 x 10 ³
Tensile strength	ISO 527	MPa	280
Impact strength	ISO 179 / 3C	kJ/m ²	90
Limiting temperature	IEC 216	°C	155
Comparative Tracking index	DIN/IEC 112	-	220
Insulation class	-	-	B
Volume resistivity	DIN 53482	Ω	5 x 10 ¹⁰
Electrical strength parallel to layers	DIN 53481	kV	40
Electrical strength vertical to layers	DIN 53481	kV	40
Dielectric constant	DIN 53483	-	5
Comparative tracking index	-	CTI	KC 180
Flexural resistance	DIN 53452	N/mm ²	350
Elasticity module	DIN 53457	N/mm ²	18 x 10 ³
Impact strength	DIN 53453	kJ/m ²	100
Impact strength notched	DIN 53453	kJ/m ²	50
Splitting force	DIN 53463	N	3000
Compressibility	DIN 53454	N/mm ²	150
Water absorption (4 mm thick)	DIN 53495	mg	25
Linear extension	VDE304-2	10 ⁻⁶ /K	10 – 20
Thermal conductivity	DIN 52612	W/mK	0.3

Trademark Information: Rigidiso® is a registered trademark of the company Dr. Dietrich Müller GmbH, Germany.

Dr. Dietrich Müller GmbH

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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.

Dr. Dietrich Müller GmbH