

Laminates

Rigidiso® RI 40310

Composition: Rigidiso® RI 40310 is a plate laminate made of glass cloth and polyimide resin and meets the following standards:

IEC 60893 EP GC 306/308
DIN 7735 HGW 2372.4 H

Properties: Rigidiso® RI 40310 is insulating up to insulation class H (180°C), furthermore it has very good mechanical properties. Rigidiso® RI 40310 is designed in accordance with flammability class UL 94 level HB. Rigidiso® RI 40310 complies with the DIN EN 45545-2:2020 R22/R23 HL3 standard.

Application: Rigidiso® RI 40310 is used whenever high pressure and temperature resistance is required, for example for press, for moulding and injection tools and for thermal insulation boards.

Delivery forms: Rigidiso® RI 40310 is deliverable in thicknesses of 0.50 mm up to 30 mm, as well as sheets of 2140 x 2140 mm and 1070 x 1240 with a tolerance of ± 0.14 mm.

Other dimensions upon customer request.

Standard colour: Rigidiso® RI 40310 is delivered in a brown colour and is also available in black.

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Storage conditions: Rigidiso® RI 40310 is storable unlimited under normal conditions (20°C, 50% rel. air humidity).

Property	Test method	Unit	Value
Density	ISO 1183 / A	g/cm ³	2.0
Flexural resistance	ISO 178	Mpa	450
Elasticity module	ISO 178	Mpa	25
Tensile strength	ISO 527	Mpa	300
Impact resistance	ISO 179 / 3C	kJ/m ²	50
Limiting temperature	IEC 216	°C	180
Creeping resistance	DIN / IEC 112	-	200
Thermal conductivity	-	W/mK	0,3
Insulation class	-	-	H
Water absorption (5mm)	ISO 62 / 1	mg	25
DIN EN 45545-2:2020	-	-	R22/R23 HL3

Trademark Information: Rigidiso® is a registered trademark of the 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.

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