

Laminates

Rigidiso® RI 40318

Composition: Rigidiso® RI 40318 is a manufactured sheet laminate and is made of synthetic resin densified wood and meets the following standards:

IEC 61061 -
DIN 7707 KP 20 218

Properties: Rigidiso® RI 40318 is insulating up to insulation class A (105°C), furthermore it has very good mechanical properties.

Applications: Rigidiso® RI 40318 is used whenever good mechanical and electrical properties in the low voltage range are required, that means for example for laboratory benches, frontal covering in the inner area and basic plates for control units.

Delivery forms: Rigidiso® RI 40318 is available in thicknesses of 15 mm – 200 mm as well as sheet (1000 x 1000 mm and 2000 x 1000 mm with a tolerance of ±0.14 mm). Furthermore Rigidiso® RI 40318 can also be delivered as cut.

Standard colour: Rigidiso® RI 40318 is delivered in brown colour.

Storage conditions: Rigidiso® RI 40318 is durable unlimited under normal conditions (20°C, 50% rel. air humidity).

Dr. Dietrich Müller GmbH

Rigidiso® RI 40318

Property	Test method	Unit	Value
Density	IEC 61061	g/cm ³	1.35
Flexural strength	DIN EN ISO 178	N/mm ²	220
Elasticity module of flexural test	DIN EN ISO 178	N/mm ²	18500
Pressure resistance	DIN EN ISO 604	N/mm ²	180
Pressure resistance	DIN EN ISO 604	N/mm ²	170
Tensile strength	DIN EN ISO 527	N/mm ²	185
Impact resistance	DIN EN ISO 179	kJ/m ²	40
Impact resistance	DIN EN ISO 179	kJ/m ²	32
Dielectric strength at 20°C	IEC 60 243	kV/25 mm	45
Dielectric strength at 90°C	IEC 60 243	kV/25 mm	32
Dielectric strength after treatment	IEC 60 093	Ω cm	10 ¹¹
Dielectric dissipation factor at 50 Hz 20°C	DIN 53 483	tan	0.02
Comparative tracking index	IEC 60 112	Stage	CTI 175
Oil absorption	IEC 61 061	%	<2
Thermal conductivity at 20°C	DIN 52 612	W/mK	0.3
Limiting temperature at continuous stress	-	°C	90
Limiting temperature at treatment	-	°C	100

Rigidiso® RI 40318

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.

Dr. Dietrich Müller GmbH