

## Laminates

### Rigidiso® RI 40342

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**Composition:** Rigidiso® RI 40342 is a manufactured sheet laminate and is made of synthetic resin densified wood and meets the following standards:

|           |           |
|-----------|-----------|
| IEC 61061 | T2R       |
| DIN 7707  | KP 20 242 |

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**Properties:** Rigidiso® RI 40342 is insulating up to insulation class A (105°C), furthermore it has very good mechanical properties.

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**Applications:** Rigidiso® RI 40342 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.

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**Delivery forms:** Rigidiso® RI 40342 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 40342 can also be delivered as cut.

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**Standard colour:** Rigidiso® RI 40342 is delivered in brown colour.

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**Storage conditions:** Rigidiso® RI 40342 is durable unlimited under normal conditions (20°C, 50% rel. air humidity).

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| Property                                       | Test method    | Unit              | Value            |
|--|----------------|-------------------|------------------|
| Density  | IEC 61061      | g/cm <sup>3</sup> | 0.95             |
| Flexural strength                              | DIN EN ISO 178 | N/mm <sup>2</sup> | 130              |
| Elasticity module of flexural test             | DIN EN ISO 178 | N/mm <sup>2</sup> | 14000            |
| Pressure resistance                            | DIN EN ISO 604 | N/mm <sup>2</sup> | 130              |
| Pressure resistance                            | DIN EN ISO 604 | N/mm <sup>2</sup> | 80               |
| Tensile strength                               | DIN EN ISO 527 | N/mm <sup>2</sup> | 110              |
| Impact resistance                              | DIN EN ISO 179 | kJ/m <sup>2</sup> | 40               |
| Impact resistance                              | DIN EN ISO 179 | kJ/m <sup>2</sup> | 36               |
| Dielectric strength at 20°C                    | IEC 60 243     | kV/25 mm          | 70               |
| Dielectric strength at 90°C                    | IEC 60 243     | kV/25 mm          | 70               |
| Dielectric strength after treatment            | IEC 60 093     | Ω cm              | 10 <sup>12</sup> |
| Dielectric dissipation factor at 50 Hz<br>20°C | DIN 53 483     | tan               | 0.02             |
| Comparative tracking index                     | IEC 60 112     | Stage             | CTI 175          |
| Oil absorption                                 | IEC 61 061     | %                 | 30               |
| Thermal conductivity at 20°C                   | DIN 52 612     | W/mK              | 0.2              |
| Limiting temperature at continuous<br>stress   | -              | °C                | 105              |
| Limiting temperature at treatment              | -              | °C                | 140              |

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

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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.

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