

## Laminates

### Pertinax® RI 40002

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**Structure:** Pertinax® RI 40002 is a manufactured phenolic resin and paper sheet laminate and conforms to standards:

IEC 60893	PF CP 203
DIN 7735	HP 2061.6

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**Characteristics:** Pertinax® RI 40002 is very good insulation to Insulation Class E (120°C), it also has very good mechanical properties.

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**Application:** Pertinax® RI 40002 is used when good mechanical and electrical properties are required for low voltage, amongst others, laboratory tables, interior front cover panels and base plates for switchgear.

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**Form of Supply:** Pertinax® RI 40002 is available in thicknesses of 0.5 - 90 mm, in sheet sizes: 2140 x 1240 mm and 1070 x 1240 mm with a tolerance of  $\pm 0.08$  mm. Cut to size blanks can also be supplied on request.

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**Colour:** Pertinax® RI 40002 is supplied in brown as standard, it is also available in black.

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## Pertinax® RI 40002

**Storage Conditions:** Pertinax® RI 40002 can be stored unlimited under normal conditions (20°C, 50% r. H.).

Technical Data:	Norm	Unit	Value
Density	ISO 1183 / A	G/cm <sup>3</sup>	1.3 – 1.4
Flexural Strength	ISO 178	Mpa	130
Elasticity of the Flexural Test	ISO 178	Mpa	7 x 10 <sup>3</sup>
Tensile Strength	ISO 527	Mpa	100
Impact Strength	ISO 178 / 3C	KJ/m <sup>2</sup>	15
Temperature Limit	IEC 216	°C	120
Comparative Tracking	DIN/IEC 112	-	100
Thermal Conductivity	-	W/mK	0.2
Thermal Class	-	-	E
Water Absorbtion (5mm)	ISO 62 / 1	Mg	225

**Trademark Information:** Pertinax® 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