

## Laminates

### Pertinax® RI 40006

---

**Composition:** Pertinax® RI 40006 is a manufactured epoxy resin and paper sheet laminate and meets the following standards:

IEC 60893	EP CP 201
DIN 7735	HP 2361.1

---

**Properties:** Pertinax® RI 40006 is insulating up to insulation class A (90°C), furthermore it has very good mechanical properties. Pertinax® RI 40006 is designed in accordance with flammability class UL 94 level V-0.

---

**Applications:** Pertinax® RI 40006 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:** Pertinax® RI 40006 is available in thicknesses of 0.5 mm – 60 mm as well as sheet (2140 x 1240 mm and 1070 x 1240 mm with a tolerance of ±0.8 mm). Furthermore Pertinax® RI 40006 can also be delivered as cut, milled, die-cut or water- jet cut parts. In addition it can be equipped with a special varnish to meet a CTI of more than 600.

---

**Standard colour:** Pertinax® RI 40006 is delivered in a brown colour and it is also available in a black colour.

---

Dr. Dietrich Müller GmbH

## Pertinax® RI 40006

**Storage conditions:** Pertinax® RI 40006 is durable unlimited under normal conditions (20°C, 50% rel. air humidity).

Property	Test method	Unit	Value
Density	ISO 1183 / A	g/cm <sup>3</sup>	1.3 – 1.4
Flexural strength	ISO 178	MPa	120
Elasticity module of flexural test	ISO 178	MPa	6 x 10 <sup>3</sup>
Tensile strength	ISO 527	MPa	70
Impact resistance	ISO 179 / 3C	kJ/m <sup>2</sup>	3
Limiting temperature	IEC 216	°C	90
Comparative tracking index	DIN / IEC 112	-	100
Thermal conductivity	-	W/mK	0.2
Thermal class	-	-	A
Water absorption (5mm)	ISO 62 / 1	mg	70

Thickness	0.5	0.8	1.0	1.5	2.0	2.5	3.0	3.5	4.0
Availability	●	●	●	●	●	●	●	●	●

Thickness	4.5	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
Availability	●	●	●	●	●	●	●	●	●

Thickness	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0
Availability	●	●	●	●	●	●	●	●	●

Thickness	22.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0
Availability	●	●	●	●	●	○	○	○

- Pre-material on stock
- Delivery time pre-material 2 weeks

Dr. Dietrich Müller GmbH

## Pertinax® RI 40006

---

**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