

Laminates

Pertinax® RI 40600

Composition: Pertinax® RI 40600 is a round tube which is made of paper impregnated with phenolic resin.

Pertinax® RI 40600 meets the following standards:

EN 616212 PF CP 21

DIN 7735 HP 2065

Property: Pertinax® RI 40600 is in insulation class E (120°C), furthermore it has very good mechanical properties, is environmentally neutral, asbestos-, dioxin-, cadmium- and halogen-free. Pertinax® RI 40600 is designed in accordance with flammability class UL 94 level HB.

Application: Pertinax® RI 40600 is used in the electrical industry as high-class insulating material and as construction material in the machine construction.

Standard colour: Pertinax® RI 40600 is delivered in brown colour as standard.

Delivery form: Pertinax® RI 40600 can be delivered as tube in different thicknesses. Furthermore it can be equipped with a special resin to increase the comparative tracking index to 600.

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Storage conditions: Pertinax® RI 40600 can be stored unlimited under normal conditions (20°C, 50% relative air humidity).

Property	Test method	Unit	Value
Density	DIN 53479	g/cm ³	1.0 – 1.2
Elasticity module	-	N/mm ²	6000
Pressure resistance	DIN 53454	MPa	40
Dielectric strength, vertical	-	kV/3mm	25
Dielectric strength, parallel	-	kV/3mm	25
Limiting temperature	VDE 0304/2	°C	120
Layer adhesion	-	MPa	70
Flexural strength untreated at 23°C	DIN 53452	MPa	100
Tensile strength	DIN 53455	MPa	50
Resistance between plugs after 24 hours, water storage at 23°C	DIN 53482	Ohm	10 ⁸
1 Minute test voltage in slice orientation at 90°C after pre-treatment	DIN 53481	kV	25
1 Minute test voltage vertical to slice orientation at 90°C after pre-treatment	DIN 53481	kV	25
Comparative tracking index	IEC 112	CTI	100

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Thickness	0.3	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	13.0
Availability	●	●	●	●	●	●	●	●	●	●

Thickness	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	25.0
Availability	●	●	●	●	●	●	●	●	●	●

Thickness	30.0	35.0	40.0	45.0	50.0	60.0	70.0	80.0	90.0	100.0
Availability	●	●	●	○	○	○	○	○	○	○

● **Basic stock material**

○ **Delivery time basic material: 2 weeks**

Trademark information: Pertinax® is a registered trademark of the 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.