

Laminate



DELLITE POT IV – N1

- High pressure laminate for potentiometer with good mechanical and electrical properties
- Temperature resistant up to 200°C for short periods
- Cold punchable

	Unit	Value	Test norm
Mechanical properties			
Flexural strength	MPa	180	ISO 178
E-modulus	MPa	9000	ISO 178
Electrical properties			
Insulation resistance after immersion in water	Ohm	1.0E+8	IEC 62631-3-3
Dielectric strength $\perp$ 90°C in oil	kV/mm	10	IEC 60243-1
Comparative tracking index (CTI)	V	250	IEC 60112
Relative permittivity at 1 MHz		5.0	IEC 60250
Thermal properties			
Temperature index (TI)	TI	120	IEC 60216
Thermal conductivity	W/m·K	0.2	ISO 8301
Linear expansion coefficient //	1.0E-6/K	20	ISO 11359-2
Physical properties			
Density	g/cm ³	1.34	ISO 1183
Water absorption (24h, 23°C)	mg	110	ISO 62
Other properties			
Punchable up to 2 mm thickness at 23°C		2.5	DIN 53488

Description

Dellite POT IV – N1 is a cellulose paper laminate bonded with phenolic resin.

Specifications

IEC/DIN EN 60893 similar PF CP 206
DIN 7735 HGW 2062.8 (*)
NEMA LI-1 similar XXXPC

(*) no longer valid since March 2003

RoHS Directive

Hazardous products listed in the EU-directive 2011/65/EU (RoHS-directive), annex II and amendment 2015/863/EU are not used as ingredients in this material.

Color

Yellow brown

Applications

Potentiometers

Form of delivery

Sheet formats 1170 x 1070 mm
Size tolerance + 0 / - 30 mm

Thickness range 0.3 to 10 mm
Thickness tol. acc. to DIN EN 60893-3-4

Also available as panels or machined parts.
Other thicknesses on request

Processing

Machining with carbide and diamond tools.

The data supplied are typical values. They are not to be considered specification values. All of the information, suggestions, and recommendations about these properties and uses of the products herein are based on tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty - expressed or implied - including, without limitation, warranties of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.

VRI Composites custom fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. A variety of dimensions and diameter sizes are available. Product colors vary according to material type.

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