

Laminate



DELLITE 2063 V0

- High pressure laminate with good mechanical and electrical properties
- Defined burning rate acc. to UL 94, class V0.
UL file: E47629
- Cold punchable

Description

Dellite 2063 V0 is a cellulose paper laminate bonded with modified phenolic resin.

Specifications

IEC/DIN EN 60893	PF CP 205
DIN 7735	HGW 2062.9 (*)
NEMA LI-1	FR-2

(*) no longer valid since March 2003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

Light brown

Applications

Electrical insulation
Electrical insulation at low voltage
Electrical insulation, self-extinguishing
Contact springs
Punched parts

	Unit	Value	Test norm
Mechanical properties			
Flexural strength	MPa	120	ISO 178
E-modulus	MPa	6000	ISO 178
Impact strength (Charpy)	kJ/m ²	4	ISO 179
Tensile strength	MPa	70	ISO 527
Electrical properties			
Insulation resistance after immersion in water	Ohm	1.0E+11	IEC 62631-3-3
Breakdown voltage // 90°C in oil	kV	35	IEC 60243-1
Electric strength ⊥ 90°C in oil	kV/mm	10	IEC 60243-1
Comparative tracking index (CTI)	V	200	IEC 60112
Relative permittivity at 1 MHz		4.5	IEC 60250
Dissipation factor at 1 MHz		0.04	IEC 60250
Thermal properties			
Temperature index (TI)	TI	105	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	1.39	ISO 1183
Water absorption (24h, 23°C)	mg/%	35/0.65	ISO 62
Other properties			
Punchable up to 2 mm thickness at 23°C		2.3	DIN 53488
Flammability		V-0	UL 94

Form of delivery

Sheet formats 1070 x 1070
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 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.