

laminates

DELMAT POLYESTER 68170 (SG-200)

- ▶ Replaces advantageously silicone woven glass in high temperature application
- ▶ High mechanical properties at room temperature
- ▶ High mechanical/electrical temperature index : TI 210/210
- ▶ Excellent dimensional stability
- ▶ Low water absorption
- ▶ Easy to cold punch up to 6 mm
- ▶ Tracking resistance higher than 500 V
- ▶ UL approved, file number E 70284

General description

Delmat Polyester 68170 (SG-200) is a laminate based on glass mat and polyester resin system.

RoHS Directive

Hazardous products listed in the EU-directive 2002/95/CE (ROHS-directive), §4 section 1, are not used as ingredients in this material.

Colour

Beige

Application

Delmat Polyester 68170 (SG-200) is used in different fields of application: dry type transformers, motors, such as:

- Combs and spacers
- Phase barriers
- Connecting plates
- Blocking pieces
- Stator slot wedges ...

Standards

NF C 26-153 : Vm P2
 DIN 7735 : Hm 2471
 IEC 60893-3-5 : UP GM 201
 EN 60893-3-5 : UP GM 201

Form of delivery

Sheet size : 2000 +/-10 mm x 1000 +/-10 mm
 Thicknesses : 0,8 mm to 60 mm
 Other dimensional thicknesses on request

		Value	Test norm
Mechanical properties			
Tensile strength, //, at 23°C	MPa	85	ISO 527
Flexural strength at 23°C, flatwise	MPa	200	ISO 178
Compressive strength at 23°C, flatwise	MPa	250	ISO 604
Edgewise notched impact strength IZOD	kJ/m ²	63	ISO 180
Electrical properties			
Insulation resistance, as received	Ω	1.5.10 ¹⁴	IEC 60167
Edgewise breakdown voltage, step by step, in oil at 90° C, as received	kV	50	IEC 60243-1
Flatwise electric strength, step by step, in oil at 23°C	kV/mm	14	IEC 60243-1
Dissipation factor at 50 Hz		0.037	IEC 60250
Relative permittivity at 50 Hz		4.6	IEC 60250
Comparative tracking index - CTI	V	500	IEC 60112
Arc resistance	s	120	ASTM D 495
Physical properties			
Density	g/cm ³	1.7± 0.1	ISO 1183 (method A)
Water absorption 24h 23°C	%	0.3	ISO 62 (method 1)
Flammability		94 HB	UL 94
Coefficient of thermal expansion, //	K ⁻¹	20.10 ⁻⁶	VSM 77110
Thermal conductivity flatwise	W/m.K	0.3	DIN 52612
Thermal properties			
Temperature index (TI)		210/210	IEC 60216

The sheets are untrimmed. Homogeneity on a width of 13 mm from the edges is not guaranteed.

This product can be delivered in machined parts according to specific drawings.

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