

laminates

DELMAT POLYESTER 68030

- ▶ Very high mechanical properties at room and elevated temperatures (temperature index 155°C)
- ▶ Can substitute woven glass epoxy G-11 grades in defined applications
- ▶ Good flame and fire resistance : flame retardant
- ▶ Easy cold punch up to 6mm

General description

Delmat Polyester 68030 are laminates based on glass mat and polyester resin systems.

Application

Operating links, drives, blocks in contactors, switchgears...
Motor slot wedges
Pole frame
Spacers
And suitable for many other mechanical applications...

Standards

NEMA LI 1 : GPO-2
IEC 60893-3-5 : UP GM 204 for thicknesses below or equal to 5mm, UP GM 205 for thicknesses >5mm
EN 60893-3-5 : UP GM 204 for thicknesses below or equal to 5mm, UP GM 205 for thicknesses >5mm
NF C 26-153 : Vm P3 e
DIN 7735 : Hm 2472

Form of delivery

Sheet size : 2000 +/-10mm x 1000 +/-10mm
Thicknesses : 0,8mm to 60mm

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

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

Colour

Brown, RAL 8011

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		Value	Test norm
Physical properties			
Density	g/cm ³	1.8 ± 0.1	ISO 1183 (method A)
Water absorption after 24h immersion at 23°C, thickness 4mm	mg	<63	ISO 62 (method 1)
Flammability according to UL 94 (for thicknesses above or equal to 5mm)		94 V-0	UL 94
Mechanical properties			
Edgewise notched impact strength Charpy	kJ/m ²	60	ISO 179
Compressive strength //, at 23°C	MPa	190	ISO 604
Flexural strength at 23°C, flatwise	MPa	250	ISO 178
Tensile strength, //, at 23°C	MPa	150	ISO 527
Edgewise notched impact strength IZOD	kJ/m ²	55	ISO 180
Compressive strength at 23°C, flatwise	MPa	400	ISO 604
Flexural strength at 150°C, flatwise	MPa	150	ISO 178
Bonding strength (10mm thick)	N	4500	ASTM D 229
Modulus of elasticity in flexure at 23°C, flatwise	MPa	11500	ISO 178
Modulus of elasticity in flexure at 150°C, flatwise	MPa	8000	ISO 178
Thermal properties			
Temperature index (TI)		155	IEC 60216
Electrical properties			
Insulation resistance, as received	MOhm	10 ⁶	IEC 60167
Comparative tracking index - CTI	V	450	IEC 60112
Insulation resistance, after 24h immersion in water at 23°C	MOhm	10.5.10 ²	IEC 60167
Edgewise breakdown voltage, step by step, in oil at 23° C after immersion 48h/50°C/water	kV	35	IEC 60243-1
Edgewise breakdown voltage, step by step, in oil at 90° C, as received	kV	60	IEC 60243-1
Flatwise electric strength, step by step test, in oil at 90°C	kV/mm	9	IEC 60243-1
Arc resistance	s	175	ASTM D 495