

Laminates

DURAPOL F200 SMC

- ▶ **Good mechanical and electrical properties**
- ▶ **Flammability V-0 according UL 94 from 3,0 mm thickness**
- ▶ **UP GM 203 according to IEC 60893-3-5**
- ▶ **Corresponds to GPO-3 according to NEMA LI**

General description

DURAPOL F200 SMC consists of polyester resin with a reinforcement of chopped glass fibres.

Colour

Available standard colours are RAL 3018, 9001 and 7035. Other colours on request.

Application

Switchboards
 LV- and HV-breakers
 Phase barriers
 Switchboard bottom plates
 Arc chambers
 Connection supports
 Protection panels
 Insulation carriers
 Cable clamps
 Bus bars supports
 Power electronics

Form of delivery

Sheet size 2.000 x 1.250 mm (untrimmed)
 Sheet thicknesses from 3 mm to 60 mm

Values in brackets are typical values intended to give general guidance and are not to be regarded as requirement of this material.

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		Value	Test norm
Physical properties			
Density	g/cm ³	(1,8-1,9)	ISO 1183
Water absorption, t = 4 mm	mg	< 50	ISO 62, Verf. 1
Glow Wire Ignition Temperature		≥ 3 mm	IEC 60695-2-10
Thermal properties			
Temperature index (TI)	TI	(155)	IEC 60216
Heat distortion temperature	°C	> 200	ISO 75-2
Mechanical properties			
Flexural strength	N/mm ²	> 150	ISO 178
Flexural strength at 130°C	N/mm ²	> 70	ISO 178
Modulus of elasticity	N/mm ²	(> 9.000)	ISO 178
Tensile strength, //, at 23°C	N/mm ²	(70)	ISO 527
Compressive strength at 23°C, flatwise	N/mm ²	(220)	ISO 604
Compressive strength //, at 23°C	N/mm ²	> 160	ISO 604
Impact strength (Charpy), //	kJ/m ²	> 65	ISO 179
Electrical properties			
Volume resistivity	Ohm.cm	1.00E+14	IEC 93
Surface resistance	Ohm	1.00E+13	IEC 93
Electric strength, perpendicular- after 24 h at 23°C + 50 % r.h.	kV/mm	> 20	IEC 60243-1
Dissipation factor at 1 MHz		0.01	VDE 0303 Teil 4
Permittivity at 1 MHz		5.0	VDE 0303 Teil 4
Tracking resistance	class	1B 2.5	IEC 60587
Tracking and erosion resistance	minutes	300	IEC 60587
Proof tracking index		500	IEC 60112
Comparative tracking index	CTI	(600)	IEC 60112
Other properties			
Contact with glow-rod		BH 2-40	VDE 0304T3
Flammability	V-0	≥3 mm	UL 94

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