

Laminate



DURAPOL F200 SMC

- Good mechanical and electrical properties
- Listed V-0 acc. to UL 94 from 3,0 mm thickness, file no. E86354
- Halogen free
- UP GM 203 according to IEC 60893-3-5
- Corresponds to GPO-3 according to NEMA LI-1
- Certified acc. to EN 45545-2:2020-02, R22/R23

Description

Durapol F200 SMC consists of polyester resin with a reinforcement of chopped glass fibers.

RoHS Directive

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

Color

Available standard colors are RAL 3018, 9001 and 7035. Other colors 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

	Unit	Value	Test norm
Mechanical properties			
Flexural strength	MPa	170	ISO 178
Modulus of elasticity	MPa	10000	ISO 178
Flexural strength at 130°C	MPa	70	ISO 178
Impact strength (Charpy) //	kJ/m ²	75	ISO 179
Compressive strength // at 23°C	MPa	160	ISO 604
Compressive strength ⊥ at 23°C	MPa	270	ISO 604
Tensile strength // at 23°C	MPa	70	ISO 527
Electrical properties			
Surface resistance	Ohm	1.0E+12	IEC 62631-3-2
Dielectric strength ⊥	kV/mm	20	IEC 60243-1
Permittivity at 1 MHz		4.5	VDE 0303 Part 4
Dissipation factor at 1 MHz		0,01	VDE 0303 Part 4
Volume resistivity	Ohm.cm	1.0E+14	IEC 60893
Comparative tracking index		500	IEC 60112
Thermal properties			
Temperature index (TI)	°C	155	IEC 60216
Physical properties			
Density	g/cm ³	1.8 ^{+0,1}	ISO 1183
Water absorption, t = 4 mm	mg	< 45	ISO 62, Proc. 1
Other properties			
Flammability	V-0	≥3 mm	UL 94

Form of delivery

Sheet size 2020 x 1250 mm +2 / -3mm

Sheet thicknesses from 3 mm to 60 mm
Thickness tolerance acc. to EN 60893-3-5

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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