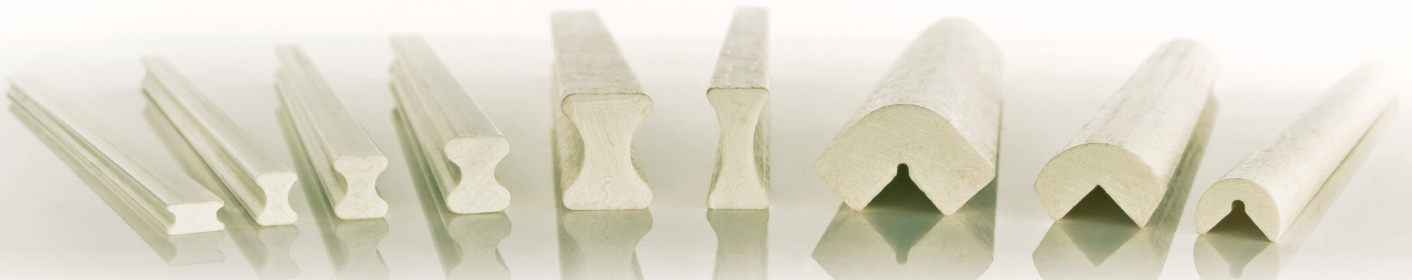


PROFILES FOR TRANSFORMERS

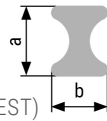
Fire protection classification EN 45545-2 R22/R23, HL1-HL3



U GRP I GFK O TWS J PRFV Ω GVK □ PRV T PAFS

DOGBONES

(CROSS-REINFORCED ON REQUEST)

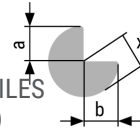


a (mm)	b (mm)	a (mm)	b (mm)
5,3	8	16	10
4,5	8		12
8	6		13
10	8	18	14
11	10	19	10
12	10		12
12	10		16
13	10	20	16
14	10	22	20
14	12	24	16
15	10	25	22

ROHS, ELV and REACH compliant

CORNER PROFILES

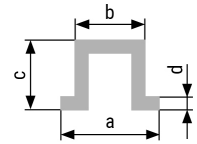
(cross-reinforced)



a (mm)	b (mm)	x (mm)
4,9	4,9	3,3
6	6	7
6	6	6
7	7	7
7,1	7,1	4,4
8	8	8
9	9	7,2
10	10	10
12	12	12,8
16	16	19
25	25	15
39	39	18,5

HATPROFILES

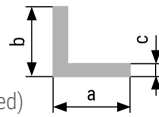
(cross-reinforced)



a (mm)	b (mm)	c (mm)	d (mm)
24,5	14,7	14	2,5
24,5	14,7	18	2,5
24,5	14,7	24	2,5
82	75	35	5

ANGLE-PROFILES

(cross-reinforced)



a (mm)	b (mm)	c (mm)
20	20	3
25	25	3
30	30	3
30	30	5

Electrical properties

Dielectric strength transverse (kV/mm)	5 - 10
Dielectric strength longitudinal (kV/mm)	3 - 8
Verlustfaktor bei 50 Hz	13×10^{-3}
Dissipation factor at 50 Hz	5,5

Mechanical properties

Breaking stress (MPa)	450
Elongation at break (%)	2
Modulus of elasticity (GPa)	25 - 40

Other properties

Warmth class (H) °C	180
Water absorption After 24h (%)	0,3
Glass content (%)	60 - 70
Density (g/cm³)	2,0
Thermal expansion (mm/m · K)	12×10^{-6}
Fire behaviour UL94, halogen-free	V0



U-PROFILES

(cross-reinforced)

20 x 21 x 4 mm
40 x 20 x 4 mm
70 x 30 x 5 mm



C-PROFILES

(cross-reinforced)

25 x 15 x 11 x 3 mm
43 x 43 x 22 x 4 mm
45 x 20 x 15 x 4 mm



TUBES

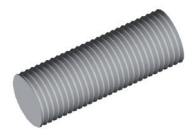
(cross-reinforced)

20 x 14 mm
32 x 26 mm
40 x 32 mm



FULL RODS

from 2 to 80 mm



THREAD-RODS

from M6 to M 30

LAMINATED PRESSINGS MACHINED ACCORDING TO CUSTOMER DRAWINGS

GRP sheets / polyester resin		
IEC 60893	NEMA LI-1	DIN 7735
UP GM 203	GPO-3	HM 2471
UP GM 203	GPO-3	HM 2472

These panels have a matrix of unsaturated polyester resin (UP) and a glass mat reinforcement. They are characterised by excellent electrical properties, as well as very low smoke density and toxicity.

Areas of application:

The standard material for electrical installations, high-voltage switchgear, transformers, control cabinets, electrical installations, chemical plant construction, use in corrosive environments.

Glass Hard Fabric Panels / Epoxy Resin		
EN 60893	NEMA LI-1	DIN 7735
EP GC 202	FR 4	HGW 2372.1
EP GC 204	FR 5	HGW 2372.2
EP GC 203	G 11	HGW 2372.4
EP GC 306 / 308	G 11	HGW 2372.4

Epoxy resin panels consist of an epoxy resin (EP) with glass fabric reinforcement.

The sheets have excellent mechanical and electrical properties, as well as high flame resistance.

Areas of application:

High-frequency technology, base material for printed circuits, mechanically demanding parts, workpieces with threads, use in chemically aggressive environments.

Hard cotton fabric / phenolic resin		
IEC 60893	NEMA LI-1	DIN 7735
PF CC 201	C	HGW 2082
PF CC 202	CE	HGW 2082.5
PF CC 203	L	HGW 2083

Cotton rigid fabric is a composite material made of phenol formaldehyde resin (PF) and cotton fabric. It has excellent mechanical strengths and also has good sliding properties and is resistant to solvents, weak alkalis, oils and fuels.

Areas of application:

Fine mechanical parts, gear wheels, pressure rollers, track rollers, sliding parts, bearing shells.

Hard paper / phenolic resin		
IEC 60893	NEMA LI-1	DIN 7735
PF CP 201	XXP	HP 2061
PF CP 202	XX	HP 2061.5
PF CP 204	XXXPC	HP 2063

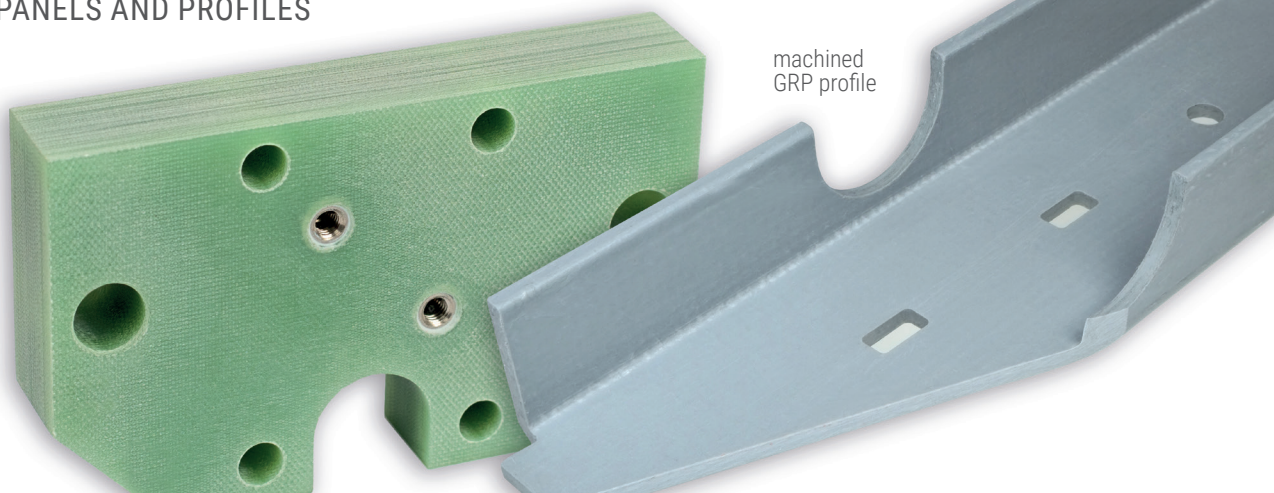
Rigid paper (Pertinax) consists of phenol formaldehyde resin (PF) and paper layers. It has good mechanical and electrical strengths as well as very good weather and moisture resistance.












Areas of application:

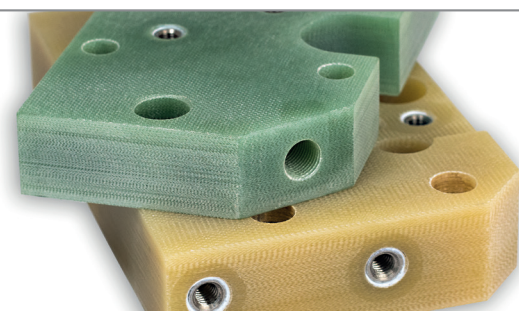
Low voltage, textile, automotive industry, mechanical engineering, stampings, transformers, high voltage switches, electronic measuring instruments.

MACHINED PANELS AND PROFILES

edited
Board



	Self-extinguishing and halogen-free		
	RoHS-compliant ELV-compliant	WEEE-compliant RLAP-compliant	REACH compliant
	Corrosion resistant and chemical resistant		
	High economic efficiency		
	Simple assembly and short construction time		
	Application range -100°C to +180°C		
	Linear stress-strain Behaviour		
	Electrically insulating		
	UV and weather resistant		
	High strength		
	Fire protection classification EN 45545-2 R22/R23 HL1-HL3		



FIBROLUX GMBH • HESSENSTR. 16 • 65719 HOFHEIM/FRANKFURT • GERMANY
TEL: (+49) 6122 91000 • FAX: (+49) 6122 15001 • INFO@FIBROLUX.COM • WWW.FIBROLUX.COM

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