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



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COMPOSITE SHEETS AND PROFILES FOR ELECTRICAL USE

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



b	

b

a (mm)

5,3

4,5

8

10

11

12

13

14

14

15

(transverse reinforcement
available on request)

DOGBONES

2

<pre>/ ````````````````````````````````````</pre>		
(mm)	a (mm)	b (mm)
8		10
0	16	12
8	10	13
6		14
8	18	14
		10
10	19	12
10		16
10	20	16
10	22	20
12	24	16
10	25	22

CORNER SECTIONS (transverse 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

25

39

19

15

18,5

16

25

39

	↓ b
	-
a	4

CORNER

TOP-HAT PROFILES (transverse 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

ANGLES

(transverse reinforced)



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

ROHS, ELV and REACH compliant

Electrical Characteristics	
Dielectric strength transverse direction (kV/mm)	5 - 10
Dielectric strength longitudinal direction (kV/mm)	3 - 8
Loss factor at 50 Hz	13 x 10 ⁻³
Dielectric constant, relative at 50 Hz	5,5

Mechanical Properties		Physical Properties
Tensile Strength (MPa)	450	Heat class (H) °C
Elongation at break (%)	2	Water Absorption after 24 hours (%)
Tensile Modulus (GPa)	25 - 40	Glass Content (%)
		Density (g/cm³)
		Thermal expansion (mm/m · K)
		Fire Performance UL94 halogen free



U-CHANNELS (transverse reinforced) 20 x 21 x 4 mm 40 x 20 x 4 mm 70 x 30 x 5 mm



C-PROFILES (transverse 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



ROUND TUBES ROUND RODS from 2 to 80 mm (transverse reinforced) 20 x 14 mm 32 x 26 mm

40 x 32 mm



180

0,3

2,0

V0

60 - 70

12 x 10⁻⁶

THREADED RODS from M6 to M 30



Glass Reinforc	ed Polyester She	eet	
IEC 60893	NEMA LI-1	DIN 7735	
UP GM 203	GPO-3	HM 2471	
UP GM 203	GPO-3	HM 2472	
Press moulded reinforced with	epoxy sheets, woven glass clo	oth.	
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	
Cotton fabric reinforced phenolic sheets			
IEC 60893	NEMA LI-1	DIN 7735	
PF CC 201	С	HGW 2082	
PF CC 202	CE	HGW 2082.5	
PF CC 203	L	HGW 2083	
Phenolic resin sheets reinforced with phenolic resin impregnated paper (Pertinax).			
IEC 60893	NEMA LI-1	DIN 7735	
PF CP 201	XXP	HP 2061	

Press moulded from unsaturated polyester resin reinforced with fibreglass mat, these sheets have excellent electrical performance combined with very low smoke emissions and toxicity in a fire situation.

Typical Applications Ideal for electrical facilities in which high voltage equipment, transformers, switchgear and control cabinets are in wide spread use, as well as chemical plants exposed to corrosive environments.

Woven glass cloth reinforced epoxy sheet, offering excellent mechanical, electrical and fire performance.

Typical Applications Ideal for use in HF equipment, printed circuit boards and high performance mechanical and threaded parts in chemically agressive environments.

Cotton fabric reinforced phenol-formaldehyde sheets, with excellent mechanical strength and high flex resistance. These sheets offer excellent resistance to solvents, weak alkalis, oils and fuels.

Typical Applications bearing shells.

Laminated sheets of phenolic resin reinforced with paper. These sheets offer excellent mechanical and electrical performance, as well as very good weatherability and mositure resistance.

Typical Applications Low voltage textile, automotive and mechanical engineering components, as well as punched parts, transformers, high voltage switches and electronic measuring devices.

MACHINED LAMINATE UND PROFILES

ΧХ

XXXPC

HP 2061.5

HP 2063



PF CP 202

PF CP 204

Precison machined parts, gear wheels, pressure rollers, slides and

