

Table of Standards for paper and cotton fabric based laminates

Comparable Standards to IEC 60893 (= EN 60893)

IEC 60893	PF CP 201	PF CP 202	PF CP 206	PF CP 204	PF CC 201	PF CC 202	PF CC 203
DIN 7735	Hp 2061	Hp 2061.5	Hp 2062.8	Hp 2063	Hgw 2082	Hgw 2082.5	Hgw 2083
NEMA LI 1	X, XP	-	XXP	XXXP	C	CE	L
BS 2572	P1	-	P3	P4	F2	F4	F1
JIS K6912 >3 mm	PL-PM	-	PL -PEM	PL-PEV	PL-FCM	PL-FCE	PL-FLI
JIS K6912 <3 mm	PL-P-P	-	PL-PES-P	PL-PEV	-	-	-

Glass Fibre based Laminates

ISOVAL®

Epoxy glass fiber laminates with the high-performance and temperature resistant ISOVAL® resin system

ISOVAL® A (EP GC 201)	With glass filament cloth for test adapters in printed circuit testing equipment
ISOVAL® 10 R (similar to EP GC 201)	With glass roving fabric for larger parts and thermal insulation. Thermal class H (180 °C)
ISOVAL® 11 (EP GC 203 & 308)	With glass filament fabric, for electric appliances and transformers, high flexural strength at elevated operating temperatures. Thermal class H (180 °C)
ISOVAL® 11 HKB (EP GC 306 & 308)	High tracking resistance (CTI 600) glass filament fabric. Thermal class H (180 °C), construction material in electric appliances and switchgear, especially for applications where surface contamination occurs
ISOVAL® TM (EP GC 308)	With glass filament fabric, high-quality construction material for a wide variety of high-temperature applications. Thermal class H (180 °C)
ISOVAL® FR4-HF (EP GC 202)	Flame-resistant, halogen-free glass fabric laminate Type FR4. Thermal class H (180 °C)
ISOVAL® R (EP GC 205)	With glass roving fabric, similar to ISOVAL® 11, but for larger parts. Thermal class H (180 °C)
ISOVAL® RKB-FR (similar to EP GC 202)	Tracking resistance of CTI 600, glass roving fabric laminate, for insulating partitions in switchgear. Thermal class F (155 °C)

CONTAVAL® 2017	Glass filament for conductive corona protection for slot packing in high voltage machines. Thermal class H (180 °C)
MAGNOVAL®	Iron powder filled epoxy laminate for magnetic slot wedges in high voltage machines. Thermal class F (155 °C) and H (180 °C)
VOLTIS® ME	Tracking resistant melamine-glass filament for mechanical and electrical applications, arc resistant and low flammability
VOLTACOMP®	Epoxy-glass roving fabric with outstanding mechanical and thermal properties for high-performance applications, such as in the composite industry
VOLTIS® SI (SI GC 202)	Silicone / glass fabric laminate, insulating material for high-frequency applications in electrical appliances and transformers, subject to high operating temperatures, but only moderate mechanical stress. Thermal class H (180 °C)
VOLTIS® Hgw 2072	Phenolic / glass filament fabric for applications under high temperatures, flame resistant
RAVOTHERM® RM	Mica paper with silicone resin, for electric and thermal applications. Thermal class C (> 220 °C)

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IEC 60893	EP GC 201	EP GC 202	EP GC 203	EP GC 205	EP GC 306	EP GC 308	SI GC 202	PF GC 201
DIN 7735	Hgw 2372	Hgw 2372.1	Hgw 2372.4	Hgw 2370.4	-	-	Hgw 2572	Hgw 2072
NEMA LI 1	G 10	FR 4	G 11	-	-	-	G 7	G 3
BS 3953	EP-3	EP-4	EP-5	-	-	EP-7	SI 5	-
JIS K 6912	EL-GEM	EL-GEF	EL-GEH	(EL-GEH)	-	-	SL-GSE	PL-GH