CONTAVAL® GP/AP/HT

Composition
CONTAVAL® GP/AP/HT is a special thermal treated semi conductive laminate consisting of E-glass cloth, conductive additives and a multifunctional epoxy-resin.

Application
CONTAVAL® GP/AP/HT is used as soldering bath carriers for printed circuits, when sensitive components ask for ESD working conditions.
According to VDE 0472/ part 813 the conflagration gases of CONTAVAL® GP/AP/HT is non-corrosive.

Availability
Thickness: 2 - 30 mm
Standard sheet size: 2140 +10/-0 mm x 1240 +10/-0 mm (up to 30 mm thickness)
2800 +10/-0 mm x 1240 +10/-0 mm (up to 30 mm thickness)

Thickness, mm	Thickness tolerance, mm
3	-0/+0.30
5	-0/+0.50
6	-0/+0.60
8	-0/+0.80
10	-0/+1

Colour: black

Machined parts and cuttings, other sheet sizes and thicknesses are also available upon request.

Machining Recommendation
CONTAVAL® GP/AP/HT can be easily cut with hammer shears or punching machines (up to 1 mm). For thicker laminates we advise to use diamond tipped tools and high speed machinery.

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Company No.: 80592 v | Commercial register: Wr. Neustadt | VAT: ATU 142 43 102 | DPR: 8028

CONTAVAL® GP/AP/HT

TECHNICAL DATA

Properties	Norm	Unit	Value
Density	DIN 53479	g/cm^3	1.7-1.9
Flexural strength at 23°C	DIN 53452	MPa	≥380
Flexural strength at 150°C	DIN 53479	g/cm^3	≥190
Flexural strength at 180°C	DIN 53452	MPa	≥140
Flexural modulus of elasticity	ISO 178	MPa	approx. 20000
Surface resistivity	IEC 6093	Ω/square	10^5-10^9
Compressive strength perpendicular to laminations 23°C	ISO 604	MPa	400
Tensile strength	ISO 527	MPa	240
Poisson's ratio	ISO 527		0.150
Thermal conductivity	DIN 52612	W/mK	0.3
Linear coefficient of expansion (parallel)	VDE 0304/2	1/K	≤ 1.0 x 10^{-5}
Thermal classification Short term temperature exposure	IEC 60216		180°C (H) 350°C

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