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Isovolta CONTAVAL® GP/AP/HT is a woven glass fabric laminate that consists of layers of epoxy. It is most suitable for use as wave soldering carriers for printed circuit boards (PCB), as it provides the necessary ESD working conditions required by the sensitive components of your PCBs.

With its **excellent mechanical** and **conductivity properties**, CONTAVAL® is able to maintain stable structure at parallel and perpendicular of layers even at high temperature. Its **high chemical** and **temperature resistance** will also prolong the life span of your wave pallet, and help you save cost in the long run.

Due to the epoxy layers, CONTAVAL® is highly durable and cost effective. General properties include:

- Excellent chemical resistance due to better material structure as layers of epoxy acts as shield to flux attacks, hence minimizing oxidation that causes corrosion defects
- Dimensional stability at high operating temperature of 260 - 280 degree celsius
- Longer life span – Contaval is able to withstand 8000 cycles, as opposed to the 2000 cycles for other composites
- Negligible loose fibers
- Fulfills Rohs and Environmental Health Safety requirement

Material Structure

Other Composite after 2,000 Cycles



- Non-woven glass fiber composite
- Porous grain structure
- **Exposed loose fibers** after cyclic temperature & Flux chemical attack

CONTAVAL after 8,000 Cycles



- Woven glass cloth laminate
- Layers of epoxy & glass cloth (Granules of epoxy and glass)
- **Epoxy layer acts as "shield"** to cyclic temperature & flux chemical attack



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