



EMP110 HR

HIGH RESOLUTION AQUEOUS DEVELOPABLE LIQUID PHOTOIMAGEABLE SOLDERMASK

Carapace® EMP110 HR is a high resolution, contact exposure, aqueous developing, liquid photoimageable soldermask, using two-component epoxy technology to give high levels of chemical resistance over copper, copper oxide, tin-lead or gold plated circuits. Owing to their, high dielectric strength and physical resistance properties, **Carapace®** soldermasks are used as solder resists and insulation coverings on all types of printed circuits, in particular, high-reliability, double-sided and multilayer, fine line, surface mount boards .

The new high resolution **HR** series have been developed to enable PCB manufacturers to meet today's demands for fine pitch circuitry .

FEATURES & BENEFITS

- **High resolution - 50µ, solder dam capability**
- High resistance to low solids fluxes
- Electroless Nickel/immersion gold compatibility
- Low ionic contamination
- High moisture and insulation resistance
- **“Halogen Free” versions available.**

CARAPACE® EMP10 HR is available in the following range of colours, finishes and application methods :-

Colours: Light green (LG), Blue, (B),
Finishes: Gloss, Matt, Extra Matt

Application Methods: Screen print (SP), Curtain Coat (CC), Airspray (AS) and Electrostatic Spray (ES)

PERFORMANCE:

Specification	Result
SM840C	Pass - Class H
Telcordia GR-78 (formerly Bellcore)	Pass
MIL5110D	Pass
Siemens E Korrosion	Pass
UL 94	Pass – V0

Property	Result
Pencil Hardness	9H
Dielectric Strength	85kV per mm
Dielectric Loss	0.03 (@ 1Mhz)
Dielectric constant	4 (@1Mhz)
CTI	660 deg per km
Outgassing	TML – 2.58% (no UV bump)
	TML – 0.95% (with UV bump)



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