

laminates

CDM ESD LF 68950

▶***** NEW CDM REFERENCE *****

- ▶ Good performances with lead free soldering process.
- ▶ Increased mechanical stability at high temperatures.
- ▶ Lead Free applications : very good temperature performances for high Lead Free temperatures - higher than 300°C.
- ▶ Excellent flux resistance.
- ▶ Dissipative material. Surface resistivity 10E5 to 10E9 Ohm/Square.
- ▶ Optical sensitiveness : green color enables an easy and improved detection by infra-red cells.
- ▶ Excellent dimensional stability and improved machineability.

General description

The new CDM ESD LF 68950 has been especially developed for the Lead Free applications with higher temperatures of pre-heat and soldering as well as longer contact time.

Excellent stability at high temperature to increase life cycles of pallets.

CDM ESD LF 68950 is a dissipative material. Its green color allows an easy segregation of lead free pallets from non Lead Free fixtures.

The random glass mat substrate present in CDM ESD LF 68950 minimizes delaminations problems during machining or pallet use. The relative low thermal conductivity in the CDM materials allows a rapid pallet turnaround eliminating most of the time both the necessity to provide a cooling station and the process heat sink effect experienced in the metallic pallets.

CDM materials can substitute metallic solder frames (or other materials) with great advantages.

Flux resistance is depending on flux composition and pH level. Highly acid as well as basic fluxes often require a regular cleaning of remaining powders in order to preserve the stability of CDM material.

Due to the high fiberglass content, machining is recommended with carbide or diamond toolings. Precise machining with very accurate tolerances can be achieved by experts in the conception and machining of pallets.

Description

CDM ESD LF 68950 is a composite material made of glass mat, combined with a high mechanical resistance resin system.

Color : Green

Dimensions

CDM ESD LF 68950 is available in standard sheet size : 2350 +/-10mm x 1335 +/- 10mm and standard thicknesses 5, 6, 8, 10 and 12mm.

For other sheet sizes and thicknesses, please consult us.

Application

Can be used in lead free process

Full process solder wave, SMT and selective soldering process

Components insertion

SMT placement

Reflow soldering

Components protection

Testing of PCBs

Cleaning of PCB boards

		Value	Test norm
Mechanical properties			
Flexural strength at 150°C, flatwise	MPa	220	ISO 178
Flexural strength at 200°C, flatwise	MPa	180	ISO 178
Flexural strength at 250°C, flatwise	MPa	100	ISO 178
Modulus of elasticity in flexure at 150°C, flatwise	MPa	16000	ISO 178
Modulus of elasticity in flexure at 200°C, flatwise	MPa	12000	ISO 178
Modulus of elasticity in flexure at 250°C, flatwise	MPa	9000	ISO 178
Electrical properties			
Surface resistivity	Ohm/square	10E5 to 10E9	IEC 60093
Thermal properties			
Thermal conductivity	W/m.K	0.3	DIN 52612
Physical properties			
Density	g/cm ³	1.9 ±0.1	ISO 1183 (method A)
Water absorption 24h 23°C	%	<0.10	ISO 62 (method 1)
Linear coefficient of thermal expansion, parallel	K ⁻¹	10.10 ⁻⁶	VSM 77110

RoHS Directive

Hazardous products listed in the EU-directive 2002/95/CE (ROHS-directive), §4 section 1, are not used as ingredients in this material.

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