

7.2 Properties of imagecureSMART XV501T-4 Cured Film

Solder Resistance	MIL-PRF-55110F IPC SM840E	30 secs @ 288°C (550°F)
Resistance to Fluxes	IPC SM840E	Pass
Ni/Au Plating		Pass
Chemical Tin Plating		Pass
Immersion Silver Plating		Pass
Hydrolytic Stability	IPC SM840E Class H	Pass
Solvent, Cleaning Agent, & Flux Resistance	IPC SM840E Class H	Pass
Fungal Resistance	IPC SM840E Class H	Pass
Abrasion Pencil Hardness	IPC SM840E Class H	Pass (7H)
Adhesion (Copper)	IPC SM840E Class H EN ISO 2409	Pass < GT1
Thermal Shock	IPC SM840E Class H MIL-PRF-55110F MIL-STD-202G Bosch Y 273 R80 029 Class TC1 and TC6 Siemens 657539.49.60 Class C	Pass Pass Pass Pass Pass
Thermal Storage	IPC SM840E Class H Bosch Y 273 R80 029 Class TC1 and TC6 Siemens 657539.49.60 Class C	Pass Pass Pass
Chemical Resistance	IPA 1,1,1 Trichloroethane MEK Methylene Chloride Alkaline Detergent Fluxes	>1 hour >1 hour >1 hour >1 hour >1 hour >1 hour
Ionic Contamination	MIL-PRF-55110F (Alpha Ionograph 500M) Hella – N67036 Siemens 657539.49.60 (Alpha Ionograph 500M)	<0.3µg. NaCl/cm² < 0.8 µg / cm² < 3.1 µg / cm²
Flammability	UL 94V0 Rating	File No. E83564
Bellcore	TR-NWT000078	Pass
Insulation Resistance	IPC SM840E Classes T & H	Pass
Moisture & Insulation Resistance	IPC SM840E Classes T & H	Pass
Electromigration	IPC SM840E Classes T & H	Pass
E-Corrosion	Bosch Y 273 R80 029 Siemens 657539.49.60	Pass Pass
Dielectric Constant Er (1 MHz)		3.9 – 4.0
Dielectric Loss Factor tangent (10² Hz - 10⁶Hz)		0.02
Dielectric Strength (50Hz.)	IPC SM840E Classes T & H DIN53481	120kV/mm.

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