

CC7130-PRTC Per IPC-CC-830C Independent Lab Certification Results

Test	Procedure-Method	Requirements/Comments	Results
Coating Thickness (Spray and Dip Coating Method)	Thickness measurement	Thickness: Min. 12.5µm; Max. 50µm in meeting all requirements for “Parylene Classification” of performance. All other classes need heavier coating.	PASS
Visual inspection	On glass plate under white and UV light	Coating must have uniform appearance and consistency	PASS
Fluorescence	On glass plate under black (UV) light	Coating must fluoresce under UV black light (typical wavelength 365nm)	PASS
Fungus resistance	IPC-TM-650 section 2.6.1.1 on glass plate	Not attacked by biological growth	
UL 94 test strip for flammability	UL 94 HB	Must meet a minimum horizontal burning test	PASS
Flexibility	IPC-TM-650 section 2.4.5.1 on tin panel	No evidence of cracking or crazing of the cured coating	PASS
Dielectric Withstanding Voltage	IPC-TM-650 sec. 2.5.7.1 on IPC-B-25A Test Board	No disruptive discharge, sparkover, or breakdown. 1500VAC, Max 10 uA leakage rate; Pattern D insulation resistance >10¹²Ω	PASS
Moisture and Insulation Resistance	IPC-TM-650 section 2.6.3.4 on IPC-B-25A	Minimum 500MΩ for ER and 5GΩ for all other types after exposure to humidity within 1-2hours of exposure; Insulation resistance post moisture exposure: >10¹¹Ω = before exposure (No Degradation)	PASS, Meets Requirements for “Parylene Type”
Thermal Shock	IPC-TM-650 sec. 2.6.7.1 on IPC-B-25A	Appearance and Dielectric Withstand Voltage after testing must meet the above-mentioned passing levels	PASS
Temperature and Humidity Aging	IPC-TM-650 sec. 2.6.11.1 on “Y Panel” test coupon	No evidence of softening, tack, cracking, loss of adhesion, or reversion	PASS
New Type of Conformal Coating from AI Technology, Inc.	<ul style="list-style-type: none"> • CC7130-PRTC is a new class of thin conformal coating with molecular structure of high density and crystallinity polymer for hydrophobicity and moisture barrier • Designed for low cost spray-dip-brush coating methods to achieve 25-50µm thickness • This Parylene replacement conformal coating is molecularly engineered for extreme conditions including salt-fog, salt-water, and moisture laden environments 		