

**SC7130-CC Per IPC-CC-830C Independent Lab Certification Results**

Test	Procedure-Method	Requirements/Comments	Results
<b>Coating Thickness (Spray and Dip Coating Method)</b>	Thickness measurement	Thickness: Min. 12.5µm; Max. 50µm in meeting all requirements for “Parylene Classification” of performance. All other classes need heavier coating.	PASS
<b>Visual inspection</b>	On glass plate under white and UV light	Coating must have uniform appearance and consistency	PASS
<b>Fluorescence</b>	On glass plate under black (UV) light	Coating must fluoresce under UV black light (typical wavelength 365nm)	PASS
<b>Fungus resistance</b>	IPC-TM-650 section 2.6.1.1 on glass plate	Not attacked by biological growth	
<b>UL 94 test strip for flammability</b>	<b>UL 94 HB</b>	<b>Must meet a minimum horizontal burning test</b>	<b>PASS; V-0 Self-Extinguishing</b>
<b>Flexibility</b>	IPC-TM-650 section 2.4.5.1 on tin panel	No evidence of cracking or crazing of the cured coating	PASS
<b>Dielectric Withstanding Voltage</b>	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; <b>Pattern D insulation resistance &gt;10<sup>12</sup>Ω</b>	PASS
<b>Moisture and Insulation Resistance</b>	<b>IPC-TM-650 section 2.6.3.4 on IPC-B-25A</b>	<b>Minimum 500MΩ for ER and 5GΩ for all other types after exposure to humidity within 1-2hours of exposure; Insulation resistance post moisture exposure: &gt;10<sup>11</sup>Ω = before exposure (No Degradation)</b>	<b>PASS, Meets Requirements for “Parylene Type”</b>
<b>Thermal Shock</b>	IPC-TM-650 section 2.6.7.1 on IPC-B-25A	Appearance and Dielectric Withstand Voltage after testing must meet the above-mentioned passing levels	PASS
<b>Temperature and Humidity Aging</b>	IPC-TM-650 sect. 2.6.11.1 on “Y Panel” test coupon	No evidence of softening, tack, cracking, loss of adhesion, or reversion	PASS
<b>New Type of Conformal Coating from AI Technology, Inc.</b>	<ul style="list-style-type: none"> <li>• SC7130-CC is a new class of thin conformal coating with molecular structure of fluorinated polymer for hydrophobic and moisture barrier</li> <li>• Designed for low cost spray-dip-brush coating methods to achieve 12.5-50µm thickness</li> <li>• The strong and tight molecular stability is engineered for extreme conditions including salt-fog, salt-water, acid rain, and corrosive environments</li> <li>• This Parylene replacement conformal coating has been proven to outperform all traditional conformal coating in more stringent Radio Technical Commission for Aeronautics (RTCA DO 160) applications</li> </ul>		