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Implementation of the current standards in use today, the PCB industry as a whole relied on military standards. However, storage and handling guidelines used by the military did not correctly define methods for packaging PCBs to preserve their quality and reliability

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to protect printed boards from

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contamination, physical damage, solderability degradation, electrostatic discharge and moisture uptake. The document covers all phases of production, from the manufacture of the bare printed board, through delivery, receiving, stocking, and soldering.

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IPC-1601, Standard on Handling,  
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the Printed Board Storage and Handling Subcommittee (D-35) of the Rigid Printed Board Committee (D-30) of IPC Users of this publication are encouraged to participate in the development of future revisions. Contact: IPC Supersedes: IPC-1601 - August 2010 ®

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. 1 INTRODUCTION . 1.1 Background

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Historically, the printed board industry has relied on military specifications and guidelines to define packaging methods to preserve the quality and reliability of printed boards during shipment and ... Read : IPC-1601 PRINTED CIRCUIT BOARD HANDLING AND STORAGE

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The industry's sole guideline on the handling, packaging and storage of printed boards. The guidelines in this document are intended to protect

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Handling And Storage  
Printed boards from contamination,  
physical damage, solderability  
degradation and moisture uptake.  
Consideration is given to packaging  
material types and methods,  
production environment, handling  
and transport of product, and  
establishing baking ...

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IPC-1601A: Printed Board Handling  
and Storage Guidelines ...

Approach: Our team determined  
baking the printed circuit boards at  
receiving, prior to assembly for a  
minimum of 4 hours at 125 ° C and a  
maximum of 16 hours would meet

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IPC-1601 standards (Printed Board Handling and Storage Guidelines). Moisture barrier bags in a range of sizes were ordered for storage of the circuit boards after completing the PCB baking process.

Printed Circuit Board Bake-out

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Consideration is given to packaging material types and methods, production environment, handling and transport of product, and establishing baking ...

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We should say for those of who are not familiar, IPC 1601 is the final, formal definition for dealing with moisture absorption in printed circuit boards. It's very similar to IPC/JEDEC J-STD-033 Moisture Sensitivity and Handling in Components. This is the same kind of specifications for circuit

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boards. Phil Moisture in circuit boards, either the way they've been stored, the way they've been shipped, the way they're handled at incoming and receiving, and in the storage room.

Circuit Board Moisture Sensitivity and

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The 'IPC-1601 printed board handling and storage guidelines' states that "If process controls are ineffective, and printed boards have absorbed excessive moisture, baking is the most practical remedy." It goes on to state, "However, baking

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Manage Moisture Damage In PCBs -  
Superdry Totech

Performance Specification:printed  
Circuit Board/Printed Wiring  
Board,General Specification IPC-6013  
Class 3 (C) meets the same

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Handling And Storage as MIL-PRF-31032, and is accepted by government agencies as a COTS equivalent of the latter.

Flex Circuit IPC Standard & IPC 6013  
for Flex Circuit ...

It varies depending on the finish. I

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know iAg is 12 months storage - as long as they are handled and stored under conditions stated in IPC 1601 (as Gabriele commented above). IPC 1601 states All boards must be pre dried: Tin dried at 105-125°C for 4-6 Hours. Silver dried at 105-125°C for 4-6 Hours Nickel/Gold dried at

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The IPC-1601, Printed Board Handling and Storage Guidelines, has 34 references on the subject of baking PCBs. The IPC answers the questions

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of Why to bake, How to bake, and  
What precautions should be taken  
(e.g., the effects on terminal finishes).  
Handling, storage and packaging tips  
abound.

Proper method to bake PCB's  
The industry's sole standard on the

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handling, packaging and storage of printed boards, IPC-1601 provides users with guidance on how to protect printed boards from contamination, physical damage, solderability degradation, electrostatic discharge and moisture uptake. The document covers all

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Handling and Storage  
phases of production, from the  
manufacture of the bare printed  
board, through delivery, receiving,  
stocking, and soldering.

IPC Delivers New Standard on  
Handling, Packaging and ...  
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Guidance on how to protect printed circuit board from contamination, physical damage, solderability degradation, electrostatic discharge and moisture uptake. The document covers all phases of production, from the manufacture of the bare printed board, through delivery, receiving,

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Electronic Interconnect: IPC-1601,  
Standard on Handling ...

BANNOCKBURN, IL – An IPC task group is making progress on a new standard for organic surface protectants for printed circuit boards.

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The committee is developing a series of test methods to enhance the assessment of an OSP ' s ability to meet performance requirements of high-temperature soldering. The latest document is in draft form and should be ready for a membership vote by spring, the ...

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Printed Circuit Design & Fab Online  
Magazine - IPC Task ...

The IPC-1601\_2010 Standard defines maximum acceptable moisture content of the PCB to be between 0.1% and 0.5% of moisture weight to resin weight (IPC-1601\_2010 3.3.6). If

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required, PCB suppliers may need to bake PCBs prior to applying the final finish to preserve the solder ability of some finishes.

ESR-001 EDM Printed Circuit Board  
Supplier Requirements ...

Taught by an IPC-certified industry

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expert with 25+ years of experience in the field, the eight-week program utilizes interactive webinars, on-demand recorded training, job-specific exercises, and team projects to facilitate mastery of the key concepts required Circuit Board Designers in the electronics industry.

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IPC Introduction to Printed Circuit  
Board (PCB) Design ...

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