

RT/duroid® 5880LZ Laminate

Quick Reference Processing Guide

Material Description:	Copper-clad filled PTFE composite
Storage:	Ambient
INNER LAYER PREPARATION	
Tooling:	Compatible with most round and slotted hole systems.
Surface Preparation for Photoresist Applications:	Chemical preparation.
Photoresist Applications:	Standard film and liquid resists and procedures.
DES Processing:	Standard processing. Thin cores may require leaders.
Oxide Treatment:	Use procedures associated with oxide or oxide alternative of choice.
BONDING	
Final Preparation:	125°C to 150°C pre-bake required.
Multilayer Adhesive System:	Compatible with most thermoplastic and thermoset films.
Multilayer Bond Cycle:	Use bond parameters associated with adhesive system.
PTH PROCESSING	
Drilling:	Rigid and supportive entry/exit materials such as press phenolic. Use new drills. Controlled infeeds, speeds, and retract rates. 12" rule for hole.
Deburring:	Mechanical debur/scrub not recommended. Very light applied pressure if debur is required.
Hole Preparation:	Pressurized water or air purge of holes is okay. Sodium or plasma treatments required prior to metal deposition. Bake required after sodium treatment.
Metallization:	Electroless copper (low or regular dep rates preferred over heavy dep processes) or direct deposit processes. Flash plate recommended prior to outer-layer imaging.
OUTER LAYER IMAGING AND FINISHING	
Standard image, plate, etch and strip procedures apply.	
Final Surfaces:	Compatible with most final metals surfaces and OSP's. Preserve post-etch surface and bake cores prior to application of LPI.
Final Circuitization:	Rout and punch as required. Material support and sharp edges on cutting tools required through mechanical processes.

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