

# RO4360G2™ Laminates

## Quick Reference Processing Guide

<b>Material Description:</b>	Copper clad, glass reinforced, ceramic filled hydrocarbon resin composite material
<b>Storage:</b>	Ambient
<b>INNER LAYER PREPARATION</b>	
<b>Tooling:</b>	Compatible with most round and slotted pinning systems
<b>Surface Preparation for Photoresist Applications:</b>	Process as is or uses chemical or mechanical preparation depending upon core thickness
<b>Photoresist Applications:</b>	Standard film and liquid resists & procedures
<b>DES Processing:</b>	Standard processing. Thin cores may require leaders.
<b>Oxide Treatment:</b>	Use procedures associated with oxide or oxide alternative of choice
<b>BONDING</b>	
<b>Final Preparation:</b>	125°C to 150°C (257°F to 302°F) Pre-bake recommended
<b>Multi-layer Adhesive System:</b>	Compatible with RO4400™ bond-ply and most thermoset prepregs
<b>Multi-layer Bond Cycle:</b>	Use bond parameters associated with adhesive system.
<b>PTH AND OUTER LAYER/DOUBLE SIDED CIRCUIT PROCESSING</b>	
<b>Drilling:</b>	Standard entry/exit materials such as sheeted aluminum and pressed phenolic. Use new drills. Controlled infeeds, speeds, and retract rates. Inspect holes to determine tool life.
<b>Deburring:</b>	Mechanical debur/scrub acceptable for thicker cores/builds.
<b>Hole Preparation:</b>	Chemical or plasma desmear may be required. Etchback is not recommended.
<b>Metallization:</b>	Electroless copper or direct deposit processes.
<b>PTH PLATING AND OUTER LAYER IMAGING</b>	
<b>Final Surfaces:</b>	Compatible with most final metals surfaces and OSP's. Preserve post-etch surface and bake cores prior to application of LPI.
<b>Final Circuitization:</b>	RO4360G2™ laminates can be routed, punched, or V-scored. Diamond-cut or multi-fluted chipbreaker router bits are recommended. V-score depth should be <math>< \frac{1}{2}</math> of the material thickness or less. Deeper cuts could result in pre-mature breakaway.

The information in this processing guideline is intended to assist you in designing with Rogers' circuit materials. It is not intended to and does not create any warranties express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown on this processing guideline will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers' circuit materials for each application.

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