



## **Lambda Introduces VFM Laboratory Tool for Semi Applications**

Lambda Technologies introduces a new integrated microwave tool specifically designed for the development of low-stress cure of polymer dielectrics on semiconductor wafers.

The MicroCure<sup>®</sup> 3100 system integrates Lambda's standard Variable Frequency Microwave (VFM) controls and operating features with a new process chamber compatible for vacuum operation. The system incorporates a vacuum pump and gas controls to maintain vacuum and environmental conditions within the process chamber. An optional oxygen sensor is available as part of the recipe control to allow setting a limit of O<sub>2</sub> levels prior to beginning the microwave process cycle. The recipe driven controls set time / temp profiles, vacuum levels, and the use of up to two process gases.

Lambda's VFM technology enables very rapid curing cycles of polymer dielectric films and, for most materials, produces fully cured results at much lower temperatures than possible with conventional thermal processes. Targeted for use in semiconductor wafer process development, the MC 3100 will accommodate proprietary microwave fixtures for 150mm, 200mm or 300mm wafers. Beyond the application of curing polymer dielectrics, VFM is also being investigated for low temperature benefits of thermal anneal and other wafer level processes using the MC 3100 platform.

### **About Lambda Technologies, Inc**

Founded in 1994, Lambda Technologies, Inc. is dedicated to providing the most advanced microwave techniques available for the processing of advanced materials. Lambda provides both research and production equipment, together with process development support, for customers worldwide.

For more information, visit [www.microcure.com](http://www.microcure.com), or contact us at (919) 462-1919.

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