

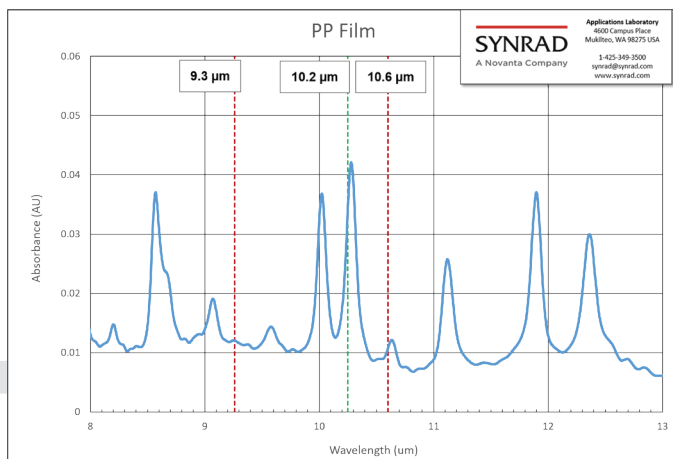
# Services Announcement Regional Applications Testing Labs Open to the Challenge

Each laser processing application is unique, and matching the right laser to the application is critical. Successful laser processing is a careful balance of laser power, desired effect, throughput speed, installation limitations, and the beam delivery system. Synrad Applications Engineers welcome the opportunity to help solve laser processing challenges. With three (3) fully equipped Applications Labs, located north of Seattle - USA, Garching - Germany, and Guangdong - China, Synrad Applications Engineers support laser application testing worldwide.



Synrad Applications Engineers use the latest test, measurement and visualization equipment to help identify the optimal CO2 laser equipment and best practices to achieve desired laser processing results.

The process starts with a thorough understanding of your target material, processing needs, and planned delivery system. Synrad Application Engineers are highly skilled, with years of practical application knowledge. Further our Applications Engineers work closely with our Research & Development and Manufacturing Engineers to validate test results, and verify recommended solutions. The one-to-one communication between our Engineering Teams yields fast solutions to challenging application questions.



Synrad Applications Engineers use an Attenuated Total Reflection (ATR) spectrometer to plot specific material absorption curves to determine the most effective laser wavelength for specific application results.

**SYNRAD**  
A Novanta Company

Synrad Applications Labs provide a variety of testing services to validate laser applications, and identify optimal laser equipment specifications. Each Applications Lab is fully equipped with Synrad high performance CO2 lasers and scanning heads to cover a broad spectrum of materials and applications. A range of XY gantry systems, beam delivery systems (cutting and marking heads), power meters and diode pointers complement our lasers and scanning heads. To analyze laser processing results, Applications Engineers utilize microscopes, IR spectrometers, and bar code readers.

Direct participation in the application test is available at any regional Applications Lab, and encouraged for new processing systems and/or applications. Real-time interaction is an advantage that can result in faster, more efficient communication, and alternative problem solving.

To learn more and request an Application Test visit <https://synrad.com/services/ApplicationsTesting>.



**Thin Films & Foils** - now commonly found in packaging, electronics, and more are unique in their composition and processing characteristics. Synrad Applications Engineers have identified the optimal components to create laser processing systems that deliver crisp cut edges.



**High Speed Processing** - requires higher power and a matched beam delivery system. Working with our Development Engineers and other Novanta companies, Synrad Applications Engineers created custom laser processing sub-assemblies to achieve high throughput speeds.

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