



## Product News

### FOR IMMEDIATE RELEASE

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### **Thermo Fisher Scientific to Showcase its Advanced Technologies for the Polymer Industry at K Show 2013**

*New products and live demos to be seen on the booth*

DÜSSELDORF, Germany (October 16, 2013) – Thermo Fisher Scientific Inc., the world leader in serving science, will showcase its versatile polymer and plastics portfolio in Hall 10, booth B59 at the K Show, the world's largest trade fair for the plastics and rubber industry, Düsseldorf, Germany, Oct. 16-23, 2013. The company will also introduce its latest development, the Thermo Scientific HAAKE MiniJet Pro injection molding system.

“From research through production, our innovations and expertise cover the complete polymer and plastics lifecycle and are designed to enable our customers to produce superior, consistent results,” said Brian Davies, vice president, marketing and product development, chemical analysis, Thermo Fisher Scientific. “We understand polymer-related processing parameters and speed critical decisions. When scientists and engineers connect with our solutions, we help them solve their greatest challenges.”

#### **Innovative Material Characterization Solutions & Versatile Spectroscopy**

The **Thermo Scientific HAAKE MiniJet Pro**, a new addition to a suite of trusted Thermo Scientific sample preparation instruments, enables material scientists to more quickly and efficiently develop injection molded test specimens in small batches (a mere 2ml – 12.5 ml) while saving money and time. Thermo Fisher designed the piston injection molding system to dramatically reduce the machine and sample requirement size when compared to classical injection molding machines.

Material scientists can also perform simultaneous rheological and FT-IR spectra measurements with the **Rheonaut module for the Thermo Scientific HAAKE MARS** rheometer platform. This combined method enables a material scientist to take a measurement on the same sample, which results in a perfect correlation of data. As a result, scientists can avoid uncertainties based on different sample preparations and time spent collecting data.

The Rheonaut module for the Thermo Scientific HAAKE MARS pairs with the highly flexible **Thermo Scientific Nicolet iS50** FT-IR spectrometer, which can be upgraded from a simple FT-IR bench to a fully-automated multi-spectral range system that can acquire spectra from near-to-far-infrared. The versatile Nicolet iS50 can also initiate novel ATR, Raman and NIR modules at the touch of a button, enabling access to these techniques without manually changing system components. Also on display is the **Thermo Scientific Nicolet iS5** spectrometer, which provides performance and value for entry-level spectroscopy.



Our **Thermo Scientific DXR Raman** microscope demonstrates how advanced Raman microscopy can help research scientists better understand a sample through point-and-shoot and mapping measurements. The instrument provides sensitivity and spatial resolution microscopy for applications like packaging or polymers analysis. **Pre-registered laminate multilayer samples will be live-tested using the Thermo Scientific DXR Raman microscope from Monday, October 21, 2013 to Wednesday, October 23, 2013 at 11:00 am and 3:00 pm.**

The **Thermo Scientific ARL PERFORM'X** wavelength dispersive X-ray fluorescence (WDXRF) analyzer offers the ability for small spot analysis and mapping of non-homogenous samples or defects in specimens. The **Thermo Scientific ARL OPTIM'X** also uses WDXRF analysis techniques to assist in determining the elemental composition of a wide range of samples, both solids and liquids, at a high resolution.

### **Small-scale Extrusion**

Robust enough to compound even high-performance polymers, the compact, standalone **Thermo Scientific Process 11** twin-screw extruder performs small-scale experiments. Researchers can easily use the extruder's results to optimize production conditions due to the proven scalability of the Thermo Scientific standalone compounding systems. Using the Process 11 extruder, researchers can use a small amount of material for an array of trials, saving both material and labor costs.

### **High Performance Web Gauging**

The **Thermo Scientific PROSIS** IR process analysis thickness sensor uses full-spectrum IR light to analyze materials on the line, providing web gauging users with highly precise, multi-component thickness data that improves production quality and reduces waste. Thermo Scientific PROSIS delivers highly-precise thickness and moisture data, greater raw materials savings and improved productivity to manufacturers. The sensor is used for a myriad of applications from the food packaging industry to nonwovens used in healthcare and personal hygiene markets, optical films used in electronics and a variety of coatings on metal coils. **Visitors can bring pre-registered samples to the booth and experience the sensor's benefits themselves.**

Thermo Scientific is one of the premier brands of Thermo Fisher Scientific Inc. More information about our portfolio of K Show solutions can be found at [thermoscientific.com/k2013](http://thermoscientific.com/k2013).

### **About Thermo Fisher Scientific**

Thermo Fisher Scientific Inc. is the world leader in serving science. Our mission is to enable our customers to make the world healthier, cleaner and safer. With revenues of \$13 billion, we have 39,000 employees and serve customers within pharmaceutical and biotech companies, hospitals and clinical diagnostic labs, universities, research institutions and government agencies, as well as in environmental and process control industries. We create value for our key stakeholders through three premier brands, Thermo Scientific, Fisher Scientific and Unity Lab Services, which offer a unique combination of innovative technologies, convenient purchasing options and a single solution for laboratory operations management. Our products and services help our customers solve complex analytical challenges, improve patient diagnostics and increase laboratory productivity. Visit [www.thermofisher.com](http://www.thermofisher.com).

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