

Press Release**Rigaku Publishes Method for Analysis of Silicone
Coating on Paper and Plastic**

Austin, TX— November 5, 2014. [Applied Rigaku Technologies, Inc.](#) has published a new application report detailing the analysis of silicone coating on paper and plastic.

Application Note #1422 describes a method using energy dispersive X-ray fluorescence (EDXRF) for the measurement of silicone coat weight, and demonstrates the effectiveness and utility of the new [Rigaku NEX QC+](#) high resolution benchtop EDXRF analyzer in the quality control (QC) process during the production of coated product. The method described employs EDXRF spectrometry as an affordable means of optimizing quality while minimizing costs and reducing product rejection and waste. Information regarding sample preparation, calibration and repeatability is also presented in the application note.

Paper and plastic are coated with a thin layer of silicone in the manufacture of tape or other adhesives. Silicone is also used as a barrier coating for protection from air in the packaging of food and other materials.

During the coating process, the amount of silicone coating must be periodically measured in order to ensure that the proper physical properties of the product are maintained. When coating is too heavy, silicone is wasted, while too little coating may not meet the product requirements. The NEX QC+ analyzer enables quick checking of the silicone coat weight in order to maintain the highest product quality with minimal costs.

About Rigaku

Since its inception in Japan in 1951, Rigaku has been at the forefront of analytical and industrial instrumentation technology. Rigaku and its subsidiaries form a global group focused on life sciences and general purpose analytical instrumentation. With hundreds of major innovations to its credit, Rigaku and its subsidiary companies are world leaders in the fields of small molecule and protein crystallography, X-ray spectrometry and diffraction, X-ray optics, as well as semiconductor metrology. Rigaku employs over 1,100 people globally and its products are in use in more than 70 countries – supporting research, development, and production control and quality assurance activities. Throughout the world, Rigaku continuously promotes partnerships, dialog, and innovation within the global scientific and industrial community.

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***The Rigaku NEX QC+ high
resolution benchtop EDXRF
analyzer***