

The ADMET logo features the word "ADMET" in a bold, dark blue, sans-serif font. The letters are contained within a white rectangular box with a thin red border. Small red triangles are positioned at the top-left, top-right, bottom-left, and bottom-right corners of the box, pointing inward.

Triosyn Reaches Out to ADMET to Solve Polymer Tension Issues

Challenge

Triosyn, a subsidiary of Safe Life Corporation, manufactures products using its Triosyn resin, a unique iodine preparation with significant antimicrobial properties. The resin is applied to a polymer substrate that is used in disposable respirators and other personal protection devices. The manufacturing process typically involved three layers of substrate. Triosyn engineers were finding that the differences in tensile strengths between substrate layers caused puckers to form between the materials. It was decided that testing of the polymers would need to be done prior to manufacture so that the rollers in the product could be tensioned correctly.

Scott Teuscher, an engineer at Triosyn, began researching options to solve this dilemma. He knew he needed a machine capable of conducting tension tests and recording data. His investigation led him to contact ADMET.

Solution

After a detailed diagnosis by an ADMET Account Director it became clear that Triosyn's issues would be best addressed by the eXpert 5601 Universal Testing Machine. This flexible and affordable machine provided all the necessary tension testing capabilities and was combined with ADMET's eP Digital Controller and data management program to allow for digital data capture.

The entire package, including specialized grips, was delivered in just a few weeks. Mr. Teuscher and his colleagues were able to begin testing immediately.

Results

Now, Triosyn engineers test all of the polymer roll samples when they are received so that the roller tension can be adjusted properly. Mr. Teuscher is pleased with the results, stating that the eXpert series machine was easy to work with. When he needed help with the ADMET's data program, he contacted ADMET support who promptly assisted him and resolved his issue. Says Mr. Teuscher, "ADMET was very helpful."

The eXpert 5601's flexibility was another big draw for Mr. Teuscher. "The beauty of it is that you can turn it into a horizontal test based on the way the machine works," he says. "It really is a unique design for tensile testing machines because the actuator is one separate unit."

Although he was unfamiliar with ADMET at first, ultimately he was glad he found them. The team at ADMET was quick, the solution was cost effective, and the machine perfectly fit his requirements.



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