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A weekly look at new products, innovations

By Rubber & Plastics News Report



Editor's Note: Each week, Rubber & Plastics News will take a look at some of the rubber industry's new products and innovations on www.rubbernews.com. Does your company have a new product or new innovation? To be considered for inclusion in this recurring feature, email ddetore@crain.com.

Phoenix Innovation Technology Inc. has released a rubber recycling technology called Rubber Regeneration (e2R²), which the firm said is simple to use and reduces costs.

According to Phoenix Innovation, the e2R² solution transforms recycled tire vulcanized crumb rubber (average of 40 mesh) into regenerated rubber, as approximately 61 percent of the sulfur bonds are broken with minimal damage to the original rubber polymer chain.

The regenerated rubber substitutes for a portion of the virgin compound, the firm claims, providing similar performance while reducing costs and thus changing the way recycled rubber is treated on a global scale.

Phoenix Innovation said the system is 100 percent eco-effective since it uses recycled tires as feedstock for an up-cycle market solution and is completely waste free during operation.

The regenerated rubber is small (40 mesh), soft to the touch and mixes easily in a compound, ensuring product finish equivalent to parts made with virgin compound, the company said. The mechanical and processing properties of a compound with regenerated rubber are similar to those of a virgin compound, the firm said.

Typical compound applications include between 10-60 percent loading of regenerated rubber, the company said, but added that products also may be made using 100 percent regenerated rubber, mixed with a small amount of vulcanizing agent, such as 2 percent sulfur).

The e2R² solution is fully automated, Phoenix Innovation said, with a capacity of 1,350 pounds per hour.

A new shaft is more than three times stiffer than the previous version and features an updated removable blade configuration, the company said.

For more information, go to the [company's website](#) or email s.murphy@PITregen.com.

Alpha Technologies has introduced the Premier High Capacity System that the company said can be integrated seamlessly with the company's Premier MDR.



Alpha Technologies' Premier High Capacity System is easy to implement and allows users to pre-load up to 112 samples for rheological testing.

The system, available as a field upgradeable module or factory installed with a new instrument, is easy to implement and allows users to pre-load up to 112 samples for rheological testing, Alpha said. The Premier HC enables users to load samples and then walk away from the instrument while it continues to test, the company claimed.

The system increases throughput with a reduced footprint while providing a renewed automated solution to customers with high capacity testing requirements, according to the firm. It said the design demonstrated up to 42 percent time reduction between tests, leading to increased instrument utilization for customers.

Alpha said the Premier HC enhances the capabilities of instruments and allows users the ability to stay mobile and efficient during high volume testing processes. The firm said it is available in single sample and multi-sample queuing models.

For more information, visit [Alpha Technologies' website](#).

GE Lighting has released the Albeo LED luminaire ABV light series.

The high bay lighting series is designed for commercial and industry applications including warehouses, distribution centers and manufacturers, among other sectors, according to GE.



Phoenix Innovation's e2R2 solution transforms recycled tire vulcanized crumb rubber into regenerated rubber..

The LED lights are 30-65 percent more energy efficient than fluorescent and HID lighting systems, the company said, and deliver a brighter, whiter light with less wattage, less maintenance and less waste. Motion and daylight sensors can be used for additional energy savings, lower maintenance costs and shorter paybacks, the company said.

Albeo ABV products feature a lumen output of 9,000-24,000; cable/chain, rod or pendant mount and a five-year limited system warranty.

For more information, [click here](#).



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