

## Keeping surgeons focused

*Cipher Surgical opts for Eastman Tritan™ copolyester for its updated OpClear® laparoscope lens cleaning device.*

During surgery, a laparoscope collects liquid, fatty residue, and other contaminants, blocking the surgeon's view. To eliminate the need to remove the laparoscope from a patient during surgery, Cipher Surgical has introduced an updated version of OpClear® that allows a surgeon to clean the lens while the device is being used. OpClear, now made with BPA-free Eastman Tritan™ copolyester, uses patented technology to direct a short, controlled jet of carbon dioxide and saline to clear the laparoscope's lens.

"When we first launched OpClear in 2013, the concept was a success, but it was made with nylon, which lacked absolute clarity and reacted poorly to certain cleaning chemicals," said Justin Buch, operations director, Cipher Surgical. "We turned to Tritan because it possesses all of the qualities we wanted to revamp our product — clarity, medical grade approval, and durability to withstand sterilization before use."

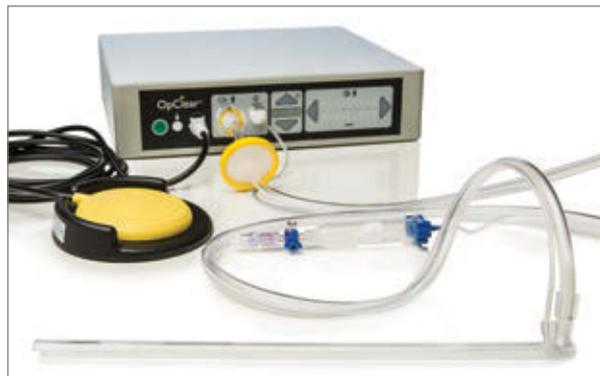
To improve the original OpClear, Cipher Surgical worked closely with Eastman and molding company Ci Medical Technologies. Having previously collaborated with Eastman, Ci Medical Technologies knew Tritan's characteristics would be a good fit for Cipher Surgical's nylon replacement. The material allows OpClear's attachment to securely clip to a laparoscope without breaking. In addition, Tritan provides toughness, clarity, and flexibility that are not impacted by sterilization processes.

"We were confident in Eastman from the start," said Buch. "The material experts assisted us with a sample run to help optimize the process. They even took the samples to check for quality and produced a mold flow analysis to ensure we were on the right path. The support the Eastman team showed was first rate and a great relationship was established."

Cipher Surgical also relied on Eastman for OpClear's packing. Eastman Eatar™ copolyester 6763 is a clear material that provides superior long-term impact resistance, with toughness and clarity that is not impacted by sterilization, giving exceptional sterile protection and functionality in processing for thermoformed rigid medical packaging.

**For more information on OpClear, visit [www.ciphersurgical.com](http://www.ciphersurgical.com); for more on Eastman, visit [www.eastman.com](http://www.eastman.com).**

*Made with BPA-free Eastman Tritan™ copolyester, OpClear® is a sterile disposable unit that attaches to a laparoscope so a surgeon can keep the lens clear and clean during an operation.*





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