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MonuMedical LLC Selects Eastman Tritan™ Copolyester for Next-Generation Stopcock Line
Startup medical device developer chooses Tritan for its chemical resistance, clarity

Kingsport, Tenn. — Feb. 12, 2014 — With a goal of delivering safe, simple, disposable infusion devices to the medical market, [MonuMedical LLC](#), based in Citrus Heights, Calif., is introducing its new Flowarray™ line of next-generation stopcocks. The Flowarray™ two-port, three-port and four-port stopcocks feature ultra-clear flow delineating ports made with [Eastman Tritan™ copolyester](#), a new-generation copolyester that is tough, chemical-resistant and free of bisphenol A (BPA). Attendees at the [Medical Design & Manufacturing \(MD&M\) West](#) trade show (Feb. 11 to 13) will be able to view prototypes of the stopcocks at the Eastman and Plas-Tech Engineering booths.

A clear, chemical-resistant material

The clear body and ports of the Flowarray™ stopcocks are made with Eastman Tritan™ copolyester, and use colored directional arrows to indicate flow. The user can readily identify which ports are open (green) and which are closed (red). This patented flow delineating system is embedded in all six of the stopcock models.

MonuMedical LLC chose Eastman Tritan™ copolyester because of its chemical resistant properties, allowing for decreased risk with chemotherapeutic drugs and other harsh aggressive agents that might be used in hospital or laboratory settings. Additional Tritan benefits include design flexibility and processing advantages.

Working together

MonuMedical LLC, a startup company, has been extremely impressed with the level of support Eastman provides its customers.

“We have never worked with a large company that offers this kind of support and service,” said Dr. Dave Duncan, president, founder and chief medical officer, Monumedical LLC. “Eastman has provided detailed input and helped with molding and resin selection, giving us fantastic customer service.”

[Plas-Tech Engineering](#), a custom medical device injection molding firm registered with the U.S. Food and Drug Administration (FDA) and based in Lake Geneva, Wis., is manufacturing the Flowarray™ stopcocks. MonuMedical was encouraged by Plas-Tech’s proposed approach to manufacturing the stopcocks, as well as the ongoing working relationship between Plas-Tech and Eastman. Duncan said, “Plas-Tech’s approach to MonuMedical’s molding needs led to a 30 percent reduction in tooling costs, with the ability to incorporate all models into the budget.”

MonuMedical LLC Selects Eastman Tritan™ Copolyester for Next-Generation Stopcock Line, p. 2

“Eastman is committed to providing unmatched technical support throughout the entire development process, from design support to processing and secondary operations,” said Gopal R. Saraiya, global segment leader, medical devices, Eastman. “We are dedicated to continuing to expand and enhance market opportunities in which Eastman Tritan™ copolyester can be used to benefit patient comfort and safety.”

A nonmedical Flowarray™ product line for laboratories, research facilities, universities and veterinary services will be available for purchase on the MonuMedical LLC website beginning in March. The medical line for hospitals, original equipment manufacturers and outpatient facilities will be available for purchase in June, pending FDA section 510(k) acceptance.

MD&M West attendees can learn more by visiting Eastman at Booth 2515 and Plas-Tech Engineering at Booth 541, where they can view the Flowarray™ three-port stopcock.

For more information about Eastman Tritan™ copolyester, visit www.eastman.com/tritan.

About Eastman Chemical Company

Eastman is a global specialty chemical company that produces a broad range of products found in items people use every day. With a portfolio of specialty businesses, Eastman works with customers to deliver innovative products and solutions while maintaining a commitment to safety and sustainability. Its market-driven approaches take advantage of world-class technology platforms and leading positions in attractive end-markets such as transportation, building and construction and consumables. Eastman focuses on creating consistent, superior value for all stakeholders. As a globally diverse company, Eastman serves customers in approximately 100 countries and had 2013 revenues of approximately \$9.4 billion. The company is headquartered in Kingsport, Tenn., and employs approximately 14,000 people around the world.

For more information about Eastman, visit www.eastman.com.

About MonuMedical LLC

MonuMedical LLC is a Northern California startup dedicated to developing safe and simple next-generation infusion devices. The company's patented Flowarray™ stopcocks are straightforward injection-molded devices with limited assembly, well-defined markets and are Class 2 devices. Flowarray™ next-generation stopcocks will be available in four models this spring and are the first products in a series of devices planned for development over the next two years.

For more information about MonuMedical LLC, visit www.monumedical.net.

About Plas-Tech Engineering, Inc.

Plas-Tech Engineering, Inc., has more than 20 years of experience in medical device, biotech and pharmaceutical injection molding solutions and is an expert in tooling and molding glass alternative materials for syringes, insert molding, multi-shot, in-mold labeling (IML) and thin-wall solutions. Plas-Tech is compliant with the ISO 13485 standard and the FDA's Good Manufacturing Practice (GMP) guidelines for clean room molding and assembly, FDA product validation services, 510(k), ISO Class 6 clean room services and Class 8 molding, packaging, sterilization and secondary operations.

For more information about Plas-Tech Engineering, visit www.plastechengineering.com.

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