


Eastman Tritan™ copolyester provides clear advantages for PolyOne's opaque medical blends.



When PolyOne, a leading global provider of specialized polymer materials, wanted to develop its portfolio of opaque blends for medical housings, equipment, and similar applications, they knew chemical resistance was an unmet need. PolyOne also knew chemical resistance would become even more important to the healthcare and medical industries as requirements for both hygiene as well as performance become more stringent in the patient care environment

Trilliant™ HC technology portfolio builds on the outstanding chemical resistance of Eastman Tritan™ copolyester

Eastman Tritan™ copolyester and opaque blends based on Tritan deliver exceptional chemical resistance and hydrolytic stability, which add value to products in environments with frequent exposure to chemical cleansing and disinfection. Since there is less chance of cracking, crazing, or failure with Trilliant HC blends made with Tritan, molded products also maintain not only their aesthetics but functional integrity as well, which is of vital importance in medical applications.

"We have been listening very closely to what our healthcare customers say about the challenges they face, the innovation they need, and the regulations they must meet," said Larry Johnson, director of healthcare for PolyOne. "PolyOne has taken steps to address design, processing, and regulatory issues in developing these products."

Another milestone in the tradition of transforming technology

Since its introduction to the medical industry early in 2009, Eastman Tritan™ copolyester has transformed how molders, designers, and OEMs think about clear thermoplastics. Tritan offers a balance of outstanding toughness, gloss, and processability when compared with polycarbonates and other polymers — in addition to important competitive advantages. Now, as the basis for PolyOne's Trilliant HC technology portfolio, it is sure to transform the industry's thinking about opaque materials.

Backed by the medical commitment of Eastman

Users of Eastman Tritan™ copolyester and blends made from Tritan benefit from the long history of innovation and design, engineering, and manufacturing expertise that have made Eastman a reliable medical polymer solution partner. Eastman is committed to the long-term needs of the medical industry — and blends based on Tritan can be used with confidence in medical applications.

From need to concept to product launch, Eastman makes a Material Difference™. Learn more today about how chemical resistance and the balance of other properties of Eastman Tritan™ copolyester can help Trilliant HC blends make a difference for you by visiting www.eastman.com/tritan. Or call 1-800-327-8626.





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Material Safety Data Sheets providing safety precautions, that should be observed when handling and storing Eastman products, are available online or by request. You should obtain and review the available material safety information before handling any of these products. If any materials mentioned are not Eastman products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be observed.

It is the responsibility of the medical device manufacturer ("Manufacturer") to determine the suitability of all component parts and raw materials, including any Eastman product, used in its final product in order to ensure safety and compliance with requirements of the United States Food and Drug Administration (FDA) or other international regulatory agencies.

Eastman products have not been designed for nor are they promoted for end uses that would be categorized either by the United States FDA or by the International Standards Organization (ISO) as implant devices. Eastman products are not intended for use in the following applications: (1) in any bodily implant applications for greater than 30 days, based on FDA-Modified ISO-10993, Part 1, "Biological Evaluation of Medical Devices" tests (including any cosmetic, reconstructive, or reproductive implant applications); (2) in any cardiac prosthetic device application, regardless of the length of time involved, including, without limitation, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass assisted devices; or (3) as any critical component in any medical device that supports or sustains human life.

For manufacturers of medical devices, biological evaluation of medical devices is performed to determine the potential toxicity resulting from contact of the component materials of the device with the body. The ranges of tests under FDA-Modified ISO-10993, Part 1, "Biological Evaluation of Medical Devices" include cytotoxicity, sensitization, irritation or intracutaneous reactivity, systemic toxicity (acute), subchronic toxicity (sub-acute), implantation, and hemocompatibility. For Eastman products offered for the medical market, limited testing information is available upon request. The Manufacturer of the medical device is responsible for the biological evaluation of the finished medical device.

The suitability of an Eastman product in a given end-use environment is dependent upon various conditions including, without limitation, chemical compatibility, temperature, part design, sterilization method, residual stresses, and external loads. It is the responsibility of the Manufacturer to evaluate its final product under actual end-use requirements and to adequately advise and warn purchasers and users thereof.

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