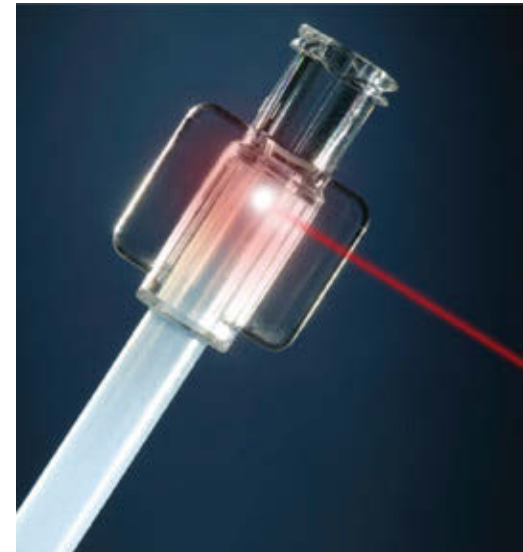


All's well that welds well.

Eastman Tritan™ copolyester is in the forefront of new laser-welding technology from IPG Photonics.

IPG Photonics, a leading provider of high-power fiber lasers, has developed a laser-welding technology for welding clear polymers such as Tritan in the manufacture of medical devices. BPA-free Tritan is widely used in the medical device market because of its balance of properties, including excellent clarity, durability, and chemical and heat resistance. The new welding technique creates high-strength welds and eliminates the need for additives which may not meet biocompatibility requirements. Additionally, no tools come into contact with the material, making it a clean and controllable process. "For medical device manufacturers, the benefits of this welding technique include fully hermetic leakproof precision joints that have a smooth weld that will not entrap bioburden," said Tony Hoult, Ph.D., senior application manager of IPG Photonics, Silicon Valley Technology Center.

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



New laser technology from IPG Photonics creates seamless welds with Eastman Tritan™ copolyester, opening up new markets for medical devices.



The results of **insight**™

**Eastman Chemical Company
Corporate Headquarters**

P.O. Box 431

Kingsport, TN 37662-5280 U.S.A.

U.S.A. and Canada, 800-EASTMAN (800-327-8626)

Other Locations, +(1) 423-229-2000

www.eastman.com/locations

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 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 (subacute), implantation, and hemocompatibility. For Eastman products offered for the medical market, limited testing information is available on 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 on 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.

© 2015 Eastman Chemical Company. Eastman brands referenced herein are trademarks of Eastman Chemical Company or one of its subsidiaries. The ® used on Eastman brands denotes registered trademark status in the U.S.; marks may also be registered internationally. Other companies' brands referenced herein are trademarks of their respective owners.