

EASTMAN

Eastman **TRITAN™**
copolyester

Clear, tough renal device housings
for performance, safety, and sustainability



The results of **insight™**



A clear vision for greater confidence

Dialyzer housings made with Eastman Tritan™ copolyester can improve confidence of healthcare providers by reducing safety concerns related to premature cracking, breaking, and compromised clarity.

An added benefit is the peace of mind of patients—and their families—when they see a housing that clearly says new, clean, and high quality.

Even if you've never heard of Eastman Tritan™ copolyester, you'll immediately appreciate the performance, safety, and sustainability advantages Tritan can provide, compared with other polymers used in dialyzer housings.

It starts with glasslike clarity

- Eastman Tritan™ copolyester is a clear material that stays clear to help clinicians and renal nurses properly and accurately detect air bubbles, clots, or blood leakage during treatment.
- Unlike other polymers, Eastman Tritan™ copolyester retains its initial color and appearance after common sterilization methods, including gamma or electron beam (E-beam) radiation, and ethylene oxide (EtO) gas.
- Greater color stability and less yellowing mean a better perception of quality for your patients.
- The exceptional chemical resistance of Eastman Tritan™ copolyester also preserves its glasslike clarity when exposed to lipids, Renalin™ sterilant, Virex™ Tb, and a variety of other medical disinfectants.

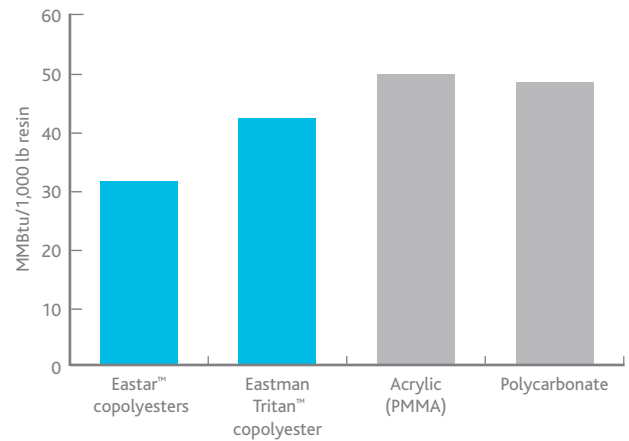
It continues with outstanding toughness

- Eastman Tritan™ copolyester has outstanding impact resistance and durability. This safely protects fragile hollow-fiber membranes from damage that can occur during shipping, handling—or simply tapping the housing to free air bubbles.
- Fewer broken dialyzer housings reduces the volume of biowaste for disposal.
- The chemical resistance of Eastman Tritan™ copolyester reduces concerns of environmental stress cracks that can compromise the structural integrity of the housings.
- Toughness and chemical resistance are important advantages for clinics and hospitals that sterilize dialyzers for reuse.

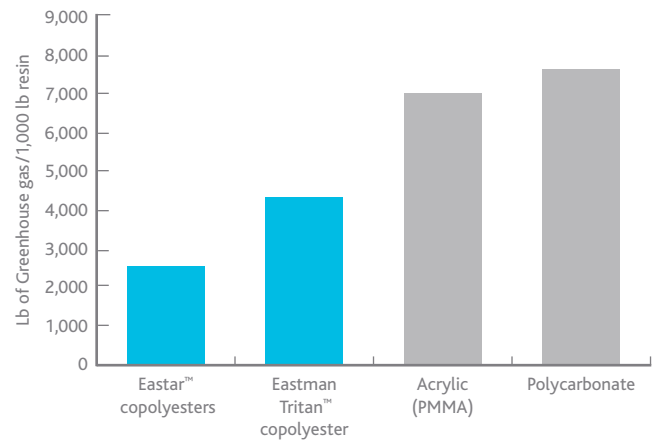
It contributes to sustainability—every step of the way

- Eastman Tritan™ copolyester is an environmentally responsible material, made without BPA, *ortho*-phthalate plasticizers, or halogens. Tritan is also made without chlorine, reducing the potential for generating hazardous air pollutants during incineration of biowaste.
- The toughness of housings made from Eastman Tritan™ copolyester results in less breakage during shipping and handling—potentially reducing protective packaging requirements and waste.
- Less breakage—less pressure on the biowaste stream and the environment.
- Eastman Tritan™ copolyester has lower greenhouse gas emissions and cradle-to-pellet energy usage than polycarbonate or acrylics.
- Eastman Tritan™ copolyester complies with the Environmentally Preferred Purchasing (EPP) guidelines of many healthcare facilities.
- It is produced by Eastman Chemical Company, a Responsible Care® company. Since 1990, the company's reportable Toxic Release Inventory (TRI) air emissions have declined by 80 percent.

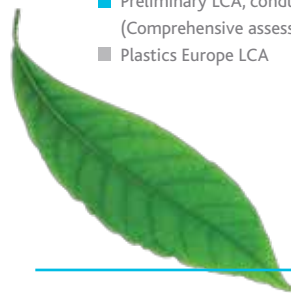
Cradle-to-pellet energy data



Greenhouse gas emissions



■ Preliminary LCA, conducted by Franklin Associates, Ltd. (Comprehensive assessment underway)
■ Plastics Europe LCA



For more information about Eastman Tritan™ copolyester and Eastman medical polymers, visit www.eastman.com/medical.

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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 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, intraaortic 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.

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