

Eastman MXF221

copolyester

Excellent chemical resistance in a flame-retardant polymer

KEY ADVANTAGES

- **Flame-retardant properties**—UL 94 V-2 rating @ 1.5 mm
- **Chemical resistance**—greater chemical compatibility than PC, PC/ABS, PC/PBT, and PC/polyester blends
- **High level of toughness**—high impact resistance and excellent durability
- **Meets hospital Environmentally Preferable Purchasing (EPP) guidelines**—made without halogens or *ortho*-phthalate plasticizers
- **Reliable color matching**—drawing on the expertise of the Eastman Color Technology Center



For handheld and other electronic medical devices

Eastman MXF221 copolyester is a clear and opaque polymer that provides a unique combination of properties to satisfy UL 94 V-2 flame rating requirements and the demands of daily use. MXF221 copolyester which provides customized colors and offers manufacturers the marketing advantages of precise brand palette expression and the opportunity to provide devices made without halogens.

Chemical resistance that is compatible with today's health care environments

MXF221 copolyester offers excellent chemical compatibility with aggressive disinfectants used to combat hospital-acquired infections (HAIs). These chemicals can cause cracking or crazing in devices made of polycarbonate (PC) or polycarbonate/acrylonitrile butadiene styrene (PC/ABS) blends—compromising device aesthetics and performance and potentially leading to product failure.

Toughness that is compatible with repeated handling

The high toughness and impact resistance of MXF221 copolyester can improve durability and reduce product failure. Parts molded with MXF221 copolyester do not require annealing to relieve residual stress—delivering the optimum balance of processability and performance.

Compatible with branding and sustainability initiatives

Many brand owners who use opaque polymers want precise color matching and vibrant aesthetics for their brand identity. Eastman MXF221 copolyester provides the assurance of working with the Eastman Color Technology Center—a leader in color theory and application since 1934.



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Safety Data Sheets providing safety precautions that should be observed when handling and storing Eastman Chemical Company ("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.

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