

# Eastman Tritan™ copolyester— a new option for clear electronic device applications

## Eastman Tritan™ copolyester

- Tritan is an innovative, new-generation copolyester that retains the versatility of traditional copolyesters while offering higher temperature performance and impact resistance. The unique properties of Tritan deliver advantages over other clear thermoplastics.
- Functional attributes of Eastman Tritan™ copolyester:
  - Toughness
  - Clarity
  - Excellent chemical resistance
  - Higher temperature performance compared to traditional copolyester
  - Lower melt processing temperature compared to standard polycarbonate
  - Good adhesion to ink/films
  - Low levels of residual stress



## Striking a balance

- Tritan offers good clarity, toughness, chemical resistance, and flow but with melt temperature sufficiently cool enough to avoid ink washout. Tritan offers this at a cost generally lower than some blended material options.
- Tritan boasts inherently low levels of residual stress which suggests it's well-suited for complex designs and shapes.
- Tritan is suitable for IMD and may be an attractive option for thin-wall lenses in mobile phones, appliances, and medical devices.

Material	Impact resistance, notched Izod (J/m) <sup>a</sup>	Light transmission (%) <sup>b</sup>	Haze <sup>b</sup>	Melt processing temperature (°C)
Tritan copolyester VX351HF	980	91	<1%	260–280

<sup>a</sup>ASTM D256 @ 23°C

<sup>b</sup>ASTM D1003

# EASTMAN

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](http://www.eastman.com/locations)

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*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.*

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