

# 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
  - Can be a drop-in replacement for PC, PMMA, and PC/polyester with minor or no modifications



## 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



The results of **insight**™

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