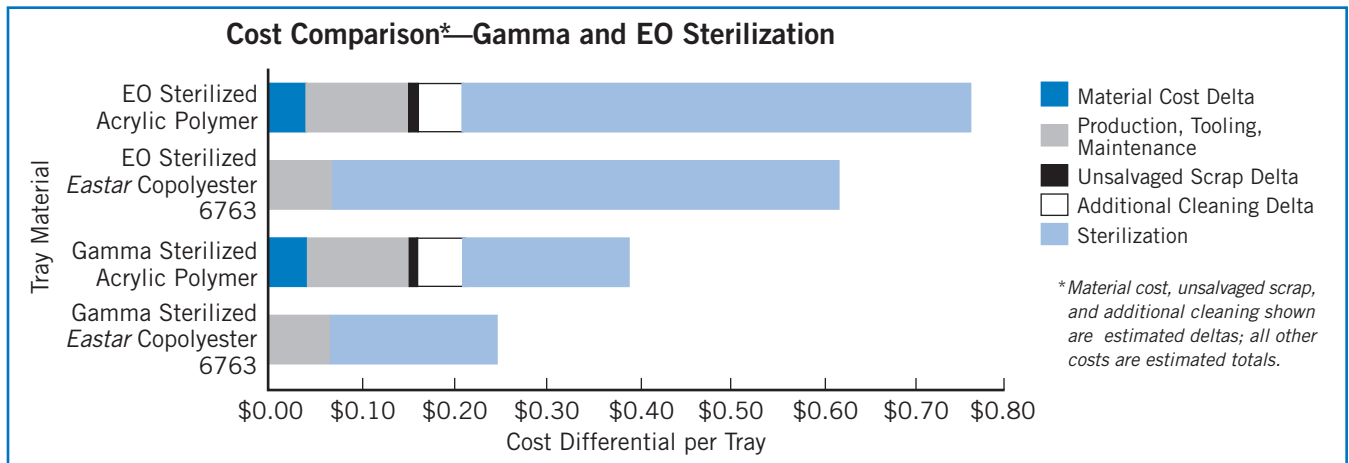


The Material Difference™
In Medical Applications

Achieve >18% Cost Savings Over Acrylic Polymer with *Eastar* Copolyester 6763!

System Cost Comparison for Gamma- or EO-Sterilized Rigid Medical Trays

The primary cost drivers in rigid medical trays are from processing and secondary operations costs based on the tray material selected. The chart below reflects typical industry material and production cost differential for an average-sized tray—8" × 16" × 2", or 128 SI—for *Eastar* Copolyester 6763 and acrylic polymer tray materials undergoing gamma or EO sterilization. In both scenarios, using *Eastar* Copolyester 6763 as the tray material reduces the total system cost.



Compared with acrylic polymer sheet, sheet made of *Eastar* Copolyester 6763 provides the following advantages:

- Has lower sheet cost
- Does not stress whiten
- Allows faster thermoforming line speeds without concern for stress whitening
- Extends life of trim tooling 2 to 3 times longer
- Has reduced particulates when cut
- Has reduced inspection and rework due to particulate contamination and stress whitening
- Has better clarity before and after sterilization
- Is compatible at levels up to 1.5% when recycled with PET products using SPI Resin Identification Code "1"

Property and Processing Comparison Sheet of Estar Copolyester 6763 and Acrylic Polymer

Sheet of *Estar* Copolyester 6763 maximizes tray performance while minimizing risk in critical rigid medical packaging applications. Compared with acrylic polymer, using *Estar* Copolyester 6763 provides enhanced performance, simplified processing, and flexibility in sterilization methods.

	<i>Estar</i> Copolyester 6763	Acrylic Polymer	Comments
Does not stress whiten	●	○	Rejection criteria during inspection
Clarity	●	◐	Acrylic polymer loses clarity in thicker gauges
Gloss	●	◐	<i>Estar</i> Copolyester 6763 has 2 times the gloss of acrylic polymer
Impact toughness	◐	◐	
Ease of cutting	●	◐	Residual particulate and angel hairs with acrylic polymer
No sensitivity to dust	●	○	Acrylic polymer requires extra packaging to eliminate dust creation during transit
Processability in general	●	◐	<i>Estar</i> Copolyester 6763 is the market leader due to overall performance advantages
Sterilization	EO	●	
	Gamma	●	◐
	E-Beam	●	◐
	Gas Plasma	●	N/D

● Best ◐ Good ◑ Average ◒ Fair ○ Poor

C o m m i t t e d , K n o w l e d g e a b l e , a n d E n a b l i n g

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