



## » PRODUCT BULLETIN

# Cesa™ Raise Heat Stability Modifier for APET Packaging

Cesa™ Raise is a heat stability modifier specifically designed for amorphous polyethylene terephthalate (APET) thermoformed packaging. The technology addresses the limitations of traditional APET thermoformed cups and containers, which can only be used up to 60°C, by increasing its heat stability to up to 100°C. This helps make APET food packaging suitable for a wider range of applications, including hot steam sterilization, hot fill, and microwave use.

The PET packaging market is experiencing significant growth, driven by increasing sustainability demands, higher recycling targets, and the shift away from alternative materials such as polystyrene (PS) or polypropylene (PP). In this context PET's enhanced recyclability and the capability to reintroduce post-consumer recycled (PCR) content into new food packaging make it an attractive choice for brands and converters worldwide. By extending the use of APET to higher-temperature applications above 60°C, brand owners can access better options that align with their sustainability goals. Cesa Raise modified APET containers are also an alternative to crystallized PET (CPET) as they offer transparency and an increased productivity in the thermoforming process.

## MARKETS & APPLICATIONS

- Thermoformed, APET food packaging, including:
  - Hot steam sterilization
  - Hot fill
  - Microwave use
- Polyester
- Sheet extrusion & thermoforming

## KEY CHARACTERISTICS

- Suitable for hot steam sterilization, hot fill, and microwave applications
- Ideal for food-grade containers with high rigidity and improved gas barrier
- Can withstand temperatures up to 100°C
- Available in both transparent and opaque options
- Processable on existing thermoforming lines with heated molds

## KEY BENEFITS

- A fully circular monomaterial, up to 100% rPET polymer content
- Promotion of the circularity of PET and the resulting packaging is possible
- Helps customers to comply with the Packaging and Packaging Waste Regulation (PPWR) that demands recyclability of all packaging with binding PCR content targets by 2030
- Demonstrates improved productivity in comparison to CPET during thermoforming
- Helps avoid possible EPR fees or penalties on difficult-to-recycle packaging



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