

# Pentaform® SmartCycle® RF-sealable & heat-sealable films

Klöckner Pentaplast introduces its Pentaform® SmartCycle® films designed for use in RF sealing and applications requiring blisters that are heat sealable to water-based, adhesive-coated cardstock. Designed to contain a minimum of 35% or 50% post-consumer recycled-bottle content, these innovative Pentaform® SmartCycle® films are engineered to be drop-in alternatives for traditional polymers sealed by these methods while helping meet customers' sustainable packaging goals.

With over 20 years of polyester production experience, Klöckner Pentaplast is a leading global producer of rigid polyester films and is the exclusive global supplier of SmartCycle® packaging films. Pentaform® SmartCycle® films offer exceptional processability on standard thermoforming and form/fill/seal equipment. These films are certified to meet domestic packaging regulations and exceed California and Oregon regulations for rigid plastic packaging containers.

SmartCycle® PET films provide a thermoformed plastic packaging option to consumer product companies and retailers while building long-term value by helping them move toward their sustainable packaging goals. Because the SmartCycle® logo can be included on the plastic containers using this film, consumers can make educated choices on their purchases.

The SmartCycle® process of making packaging from recycled plastic bottles saves energy, natural resources, and, ultimately, will help spur collection of bottles. Consumers are now able to return their Pentaform® SmartCycle® packages to Klöckner Pentaplast for recycling; thereby forming a closed loop and adding continued life to SmartCycle® branded packages. This begins with the distinctive SmartCycle® logo derived from the petaloid base found on most PET bottles. For the consumer, the unique identifying mark is informative, reinforcing the benefits of bottle and package recycling. A key goal of SmartCycle® is to help people feel good about their packaging choice by conveying the story of sustainable packaging through the entire packaging value chain – consumers, retailers, OEMs, converters, and resource recovery plants.

## Polymers:

PET films made from post-consumer recycled-bottles

## Applications:

Blisters  
Clamshells  
Trays  
Other thermoformed applications

## General Properties:

Certified film  
Properties comparable to standard APET based films  
Helps to stimulate collection of plastic bottles for recycling  
Exclusive global supplier of SmartCycle® films

## Performance Features:

- RF sealable formula with 35% PCR content
- Heat sealable formula for water-based, adhesive coated cardstock with 50% PCR content
- Runs on standard thermoforming & FFS equipment



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