



## SmartCycle® films

At kp, we know that companies are striving to meet their sustainable packaging goals. That's why we developed SmartCycle® polyester films for thermoform, food, and box packaging applications. Made from recycled plastic beverage bottles, SmartCycle® products contain guaranteed levels of post-consumer recycled (PCR) content. Choose from 25% to 100% PCR content for standard thermoforming films. Heat-seal (50% PCR) and RF-seal formulations (35% to 50% PCR) are also available.

SmartCycle® films provide post-consumer recycled content plastic packaging options to consumers while building long-term value for consumer product companies and retailers by helping them move toward their sustainable packaging goals. For consumers, SmartCycle® films provide a plastic-packaging option with recycled content. The SmartCycle® logo, which may be displayed on plastic containers using this film, helps them make educated choices.

With more than 25 years of polyester production experience, kp is a leading global producer of rigid polyester films and is the exclusive global supplier of SmartCycle® packaging films. These films are certified to meet all US and international packaging regulations. They are California RPPC, RoHS, and TPCH heavy metals compliant. Food-grade SmartCycle® films comply with all FDA and applicable international packaging regulations.

At kp, we are committed to driving sustainability practices and principles in our industry. By using post-consumer recycled content from beverage bottles, SmartCycle® films save natural resources and energy, reduce green house gas emissions, and stimulate bottle collection to keep waste out of landfills.

### Certified Post-Consumer Recycled Content

The SmartCycle® line of films has been granted a "Certificate of Verification" by NSF International, an independent, third party, not-for-profit organization. The certificate verifies the recycled content claims of SmartCycle® polyester films produced in North America and allows customers who use these films to be confident that the PCR-content claim is true and valid.

The NSF audit was conducted in accordance with the international guidelines for making environmental claims found in ISO 14021:2001 *Environmental labels and declarations - Self-declared environmental claims (Type II environmental labeling)* and 16 CFR, 260, the US Federal Trade Commission's *Guides for the Use of Environmental Marketing Claims*.

### Polymers:

Polyester films made from post-consumer recycled bottles

Mono & multi-layer structures for food applications

### Applications:

Blisters, clamshells, trays, boxes, and other thermoform or print applications

Low, medium, and high shelf-life foods

### General Properties:

- Certified PCR content from 25% to 100%
- NSF Certificate of Verification for recycled content claims for films produced in North America
- Complies with all FDA and applicable international packaging regulations for food contact
- Certified to meet US and international packaging regulations
- California RPPC, RoHS, and TPCH heavy metals compliant
- Thermoform and print properties comparable to standard polyester based films

### Performance Features:

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



© 2013 Klöckner Pentaplast. All rights reserved.

The statements contained herein are for informational purposes only and are true and accurate to the best of our scientific and technical knowledge. This information does not constitute a guarantee or warranty, express or implied, nor does it establish a legally valid contractual relationship. It is the customer's responsibility to determine the suitability of this product for the customer's intended use, and Klöckner Pentaplast does not assume any liability for the customer's use of this product or the information contained herein. (9/13)