



Pentafood® SmartCycle™ films

Klöckner Pentaplast has partnered with Packaging 2.0 LLC to introduce SmartCycle™ films in order to help meet sustainable packaging goals. Made from recycled plastic beverage bottles, these films are used for trays, clamshells, blisters, and various other containers.

SmartCycle™ films offer a range of products with various guaranteed levels (for example 50% or 70%) of post-consumer recycled plastic bottle content. These films are certified to meet packaging regulations and to comply with all FDA regulations for direct food contact as well as all applicable EU regulations and directives for food contact.

SmartCycle™ 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 appears on the plastic food 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 and potentially custom packaging. This begins with marking all packages with the SmartCycle™ logo derived from the petaloid base found on most PET bottles. A key goal of SmartCycle™ is to help people feel good (Smart) about their packaging choice by conveying the story of sustainable packaging to the entire packaging value chain (Cycle)—consumers, retailers, OEMs, converters, and resource recovery plants. Finally, at the end of the use cycle, the goal of the SmartCycle™ mark is to facilitate actual recycling—not down cycling. Currently, most municipalities collect only bottles and do not recycle plastic clamshells due to concern for mixing polymer types. With a unique identifying mark, SmartCycle™ packages could potentially allow containers to be reprocessed into new containers along with bottles made from like PET-based plastics.

Polymers:

Mono- & multi-layer structures of APET

Applications:

Low, medium & high shelf-life foods

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|-------------------|------------|
| Bakery | Pet food |
| Candies & sweets | Pizza |
| Cheese | Poultry |
| Convenience food | Produce |
| Deli goods | Salads |
| Fresh baked goods | Sandwiches |
| Fruits | Seafood |
| Meat | Snacks |
| Pasta | Vegetables |

General Properties:

Thermoforming

Consumer convenience & appeal

Source reduction solutions

Performance Features:

- Certified film
- Properties comparable to standard APET based films
- Stimulates collection of plastic bottles for recycling
- Ideal for trays & clamshells
- Exclusive global supplier of SmartCycle™ packaging films
- Runs on standard thermoforming & FFS equipment

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