



» PRODUCT BULLETIN

ColorMatrix™ Capture™ Oxygen Scavenger

ColorMatrix™ Capture™ Oxygen Scavenger is a fully recyclable scavenging solution that actively protects beverages from the adverse effects of oxygen, extending product shelf life up to 24 months. Located entirely in the closure, Capture is for use with polyethylene terephthalate (PET) bottles. This novel additive works to release hydrogen, transforming oxygen into minute amounts of odorless and tasteless water molecules.

Capture is recognized by the Association of Plastics Recyclers (APR) to meet Critical Guidance based upon its recyclability with PET bottles. Unlike traditional scavengers, it does not cause discoloration or yellowing of the bottle, helping to maintain the quality of the recycle stream. During the sorting process, the closure is separated from the PET bottle and recycled with the polyolefin stream. Data shows Capture does not affect the polyolefin stream even when it consists of 100% Capture closures.

WHY OXYGEN PROTECTION?

Oxygen scavengers and barriers are essential to the beverage packaging industry. They help remove oxygen or prevent oxygen ingress that can affect bottle contents and lead to discoloration, off-flavor or vitamin claim reduction.

The use of typical scavenging and barrier technologies in PET, however, can be a source of contamination to rPET causing yellowing and discoloration of the recycle over both time and multiple heat histories. Brands and converters are increasing their use of rPET in packaging to meet current regulations or their own sustainability commitments, but quality rPET is needed. Capture maintains PET clarity and allows up to 100% rPET usage to help brands achieve their goals.

KEY CHARACTERISTICS

- Extends product shelf life and reduces waste
- Maintains clarity and aesthetics of the bottle while keeping contents fresh
- Located in the closure, eliminating the need to add a scavenger to the container wall
- Allows unlimited design freedom, including lightweighting
- Has achieved APR Critical Guidance Recognition
- Allows up to 100% rPET usage
- Does not negatively impact the PET or polyolefin recycle streams

PROCESSING PARTICULARS

Capture is designed to work with 1-piece HDPE and PP plug seal closures. It is comprised of two layers inside the closure, and can be manufactured using compression lining or injection molding processes. The technology can be used with PET or rPET bottles and is suitable for both hot-fill and aseptic filling operations.

MARKETS AND APPLICATIONS

ColorMatrix Capture Oxygen Scavenger is formulated to protect oxygen-sensitive contents such as:

- Fruit and vegetable juice
- Nutritional and vitamin-fortified beverages
- Ready-to-drink tea and coffee
- Milk and dairy beverages
- Wine

Capture has FDA food contact approval.



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