

# Recyclable & Biodegradable CR Pop-Top Packaging

ASTM D5511 is a standard test method used to determine the biodegradability of plastic materials in a high-solids anaerobic environment.



Clean-room manufactured  
Child resistant certified - US CPSC 16 CFR 1700.20

## FEATURES



ASTM D5511 certified



Non-toxic; certified FDA-compliant for toxicity



Food contact safe



Does NOT produce microplastics or toxic residue



Does not change physical appearance, colour, or feel of product

### Made from Organic Compounds

- Does not contain:
  - Heavy or light metals or metal ions
  - Cancer-causing additives
  - Enzymes or other microbes

**10% discount on first order up to 250,000 units**

Pricing as low as:  
**\$0.12 CAD/unit**  
**\$0.09 USD/unit**

- Does not affect the recyclability of a product;
  - Pop-tops are recyclable AND biodegradable
- No limit on shelf life

EcoPure® is a non-toxic plastic additive that accelerates the rate at which plastic biodegrades in a microbe-rich environment under anaerobic (i.e., oxygen-free) conditions, such as a landfill.

## What is EcoPure®?

EcoPure® is a non-toxic, food-safe plastic additive derived from organic compounds. When added to plastic, EcoPure® accelerates the rate at which the plastic biodegrades under anaerobic conditions, like those found in landfills.

Plastics that contain EcoPure® can only undergo biodegradation when exposed to an environment that contains anaerobic microbes responsible for breaking down plastics. These plastic digesting microbes are present in landfills. Products containing EcoPure® are tested using the ASTM D5511-18 test standard.

# Learn More

**CannaLock™** **EcoPure®**

## About ASTM D5511

Get In Touch

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The ASTM D5511 is a standard test method used to determine the biodegradability of plastic materials in a high-solids anaerobic environment that mimics a landfill. An anaerobic environment is one in which free oxygen is not present. Landfills are anaerobic in nature and contain specific microbes that can digest materials in the absence of oxygen, including plastics.

In the ASTM D5511-18 lab test carried out by Intertek, CannaLock's polypropylene plastic pop-top tubes were placed in a controlled environment with conditions simulating that of a landfill. More specifically, the tubes were placed in an incubator and exposed to anaerobic digesters, like those used in municipal solid waste treatment. Over a 45-day period, our polypropylene plastic pop-top tubes with a 0.5% EcoPure® additive were shown to biodegrade by 6.32%.

### What does 6.32% biodegradation in 45 days mean?

On average, polypropylene materials take anywhere from 20-30 years to completely break down in a landfill. This equates to 7,305 – 10,958 days. Comparatively, our polypropylene pop-top tubes containing EcoPure® can undergo complete biodegradation in as little as 720 days based on the ASTM D5511-18 test results. This is approximately equal to two years. While some variation in environmental conditions exist across landfills, like temperature, they remain similar enough for these test results to apply to real-world conditions.

### Why EcoPure®?

- The EcoPure® additive can be used with virtually any petroleum-based resin.
- Does not create microplastics or toxic residue during digestion.
- Recyclable and biodegradable - multiple, eco-friendly disposal options.
- Our packaging containing EcoPure® is ASTM D5511-18 tested and compliant.

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