

TECHNICAL DATA SHEET

Eco-One® EL10

Product Overview

Eco-One® EL10

Issue Date: January 16, 2019 R7

Eco-One® EL10 is a masterbatch consisting of a proprietary blend of organic compounds and a carrier resin that is designed to enhance biodegradation in polyethylene based plastics in microbe-rich landfills when used as per the recommended guidelines.

Applications

Eco-One® EL10 can be added to all rigid, semi-rigid and flexible applications. Not for use in PE foam applications.

Properties

Properties:

Appearance: Free flowing pellets

Color: white to off-white

Carrier: Polyethylene

Specific Gravity: Approximately 1.047 g/cm³

Recommended use level: 0.9% - 5%, **Target 1.0%**

Composition (Component / CAS Number / OSHA PEL / ACGIH PEL / Wt %):

Polyolefin / mixture / none established / none established / 100

Recommended Procedure Eco-One® Addition

Packaging and Loading Into Extruder:

- Eco-One® is designed to be added as a minor component in a multicomponent resin blending system. Simply add Eco-One® as one would add a colorant.
- To achieve 1% load weight ratio: 1 kg (1 lb) of Eco-One® is added to 99 kg (lb) of base resin to make 100 kg (100 lb) batch
- Reseal package containing remaining Eco-One® product and store per instructions under Storage & Handling.

Extrusion Conditions:

- There is no need to adjust the extrusion temperature profile while running with Eco-One®.
- Melt temperatures should not exceed 329 Celsius (625 °F) for an extended period of time.
- Eco-One® is slightly hygroscopic (attracts water) - this should not cause any problems.

Food Contact Approval

Eco-One® EL10 is 100% organic and is comprised of non-toxic raw materials that are independently approved for direct contact with food.

Storage & Handling

Eco-One® EL10 is typically packaged in 25 kg / 55 lb bags and in a 500-700 kg corrugated Gaylord.

Eco-One® EL10 should be stored in accordance with good manufacturing practices. Product should be stored in a cool, dry area in a closed container. Do not let the product get wet. Reseal the product container at the end of each use in accordance with standard storage practices.

EcoLogic recommends that inventories are rotated and used within six (6) months of purchase for optimum performance.

No smoking, open flames or sources of ignition in handling and storage area. Good housekeeping and controlling of dusts are necessary for safe handling of product. When appropriate, unique handling information for containers can be found on the product label.

Company Identification

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