

TECHNICAL DATA SHEET

Eco-One® EC84

Product Overview

Eco-One® EC84

Issue Date: January 17, 2019 R7

Eco-One® EC84 is a masterbatch consisting of a proprietary blend of organic compounds and a carrier resin that is designed to enhance biodegradation in polyethylene terephthalate (PET) based plastics in microbe-rich landfills when used as per the recommended guidelines.

Applications

Eco-One® EC84 can be used in all PET rigid, semi-rigid, flexible, and fiber spinning applications.

Properties

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Appearance: Free flowing pellets

Color: white to off-white

Carrier: Polyethylene Terephthalate

Recommended use level: 1.2% - 5.0%, Target 1.5% for rigid and flexible, Target 2% for fiber

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

Polyester / 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 1.5% load weight ratio: 1.5 kg (1.5 lb) of Eco-One® is added to 98.5 kg (lb) of base resin to make 100 kg (100 lb) batch
- To achieve 2% load weight ratio: 2 kg (2 lb) of Eco-One® is added to 98 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® EC84 is 100% organic and is comprised of non-toxic raw materials that are independently approved for direct contact with food.

Storage & Handling

Eco-One® EC84 is typically packaged in 25 kg / 55 lb bags and in a 500-700 kg corrugated Gaylord.

Eco-One® EC84 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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