



TECHNICAL DATA SHEET

Eco-One® EG25

Product Overview

Eco-One® EG25

Issue Date: November 11, 2011 R3

Eco-One® EG25 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® EG25 can be added to all rigid, semi-rigid and flexible polyethylene applications. Not for use in PE foam applications or high clarity applications.

Properties

Properties:

Appearance: Free flowing pellets

Color: white to off-white

Carrier: Polyethylene

Specific Gravity: 1.48 g/cm³

Recommended use level: 0.7% - 5%, Target 1.0%

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

Polyolefin / mixture / none established / none established / 100

Recommended Eco-One Addition Procedure

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® EG25 is 100% organic and is comprised of non-toxic raw materials which are independently approved for direct contact with food.

Storage & Handling

Eco-One® EG25 is typically packaged in 25 kg / 55 lb bags and in a 500-700 kg corrugated Gaylord.

Eco-One® EG25 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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