



CERTIFICATION OF ENHANCED BIODEGRADATION IN ANAEROBIC CONDITIONS USING ECO-ONE® 2017

EcoLogic hereby *certifies and guarantees*, specifically for Polyolefin (all types of Polyethylene including LDPE, LLDPE, HDPE, EVA, and PP), Polystyrene (PS), Polyvinyl Chloride (PVC), Polyurethane (PU), Polyamide (PA) and Polyethylene Terephthalate (PET, PETG) based products, that enhanced biodegradation will be achieved in biologically active landfills provided Eco-One® is handled, stored and incorporated into the plastic per guidelines provided in our Technical Data Sheet (TDS) and Safety Data Sheet (SDS).

Using extensive independent third party laboratory testing of plastic products containing Eco-One®, EcoLogic has confirmed that Eco-One® has unquestionably caused enhanced biodegradation of those products. ASTM D5511 (US) and ISO DIS15985 (International) are the primary test methods employed by the independent third party laboratories to confirm this enhanced biodegradation. Eco-One® products allow the molecular structure of organic plastic material to be broken down. The decomposition occurs via enzymes secreted by microorganisms, in other words, decay through the actions of living organisms.

Products in various formats (flexible, rigid, semi-rigid, non-woven etc.) made using one or more of the typical production processes such as extrusion, foaming, injection molding, blow molding, biaxial orientation etc. have exhibited significantly enhanced biodegradation when containing Eco-One®.

- Eco-One® is Food Contact Compliant – US FDA, Brazilian ANVISA
- Eco-One® is Free of BPA, phthalates, and toxic materials such as lead, cadmium, hexavalent chromium and mercury
 - Eco-One® is Compliant to CA Prop 65 (California Safe Drinking Water Act)
 - Eco-One® is Compliant with US CONEG (Coalition of North Eastern Governors)
- Final products containing Eco-One® have passed ASTM E1963 (Terrestrial Plant Toxicity Test)
- Eco-One® Does Not Contain any metals such as cobalt, nickel, manganese, iron, etc.,

If polymer products are correctly made with Eco-One®, the additive will have no effect upon the strength and other performance characteristics of the product during its useful service life.

It is the responsibility of the manufacturers of products to ensure that all regulatory requirements, and physical, chemical and barrier properties, of the finished product comply with all applicable regulations and final end use product requirements.