EnerPlastics is a leading Masterbatch Manufacturing Company, located in Dubai, UAE, specializing in the production of tailor made Color and Additive Masterbatches and with sales in more than 58 countries including Europe, Africa, CIS, Middle East, the Persian Gulf and the Indian sub-continent. We are globally recognized as a leading manufacturer of additive and color masterbatches. Our success has been the flexibility to understand our customers’ needs in the region and the ability to respond rapidly to these requirements. Our customers recognize and appreciate that we add value to their businesses.
Oxo-Biodegradation and How Works

Oxo-biodegradation is the process of converting polyolefin products into biodegradable material at the end of their useful life through oxidation.

1. **EP** OBD Masterbatch is added during the manufacturing stage (Up to 1%)
2. The product then behaves as its purpose during its intended service life.
3. After service life, the products begin to degrade in the presence of oxygen. Once degradation has reached its optimum, microorganisms will begin to colonize on the surface.
4. The microorganisms metabolize the oxygenated plastic which returns to the environment as $\text{H}_2\text{O}$, $\text{CO}_2$ and Biomass.

**EnerPlastics** is the only Company in the MENA region that produces 2 grades of Oxo Biodegradable Additives; **EP OBD-1** and **EP OBD-2**. Our **EP OBD-2** exceeds the technical requirements of ESMA UAE.S5009: 2009 and SASO 2879/2016, and is certified on a pass-fail criteria basis by French Centre National d’Evaluation de Photoprotection (CNEP)/ Synthèse et Etude de Systèmes à Intérêt Biologique (SEESIB) protocols adopted in AFNOR AC T51-808-2012.
**Specialized Packaging Advantage**

EP OBDs are commercially available in specialized multilayer and multi barrier 20kg packaging that provides protection against light and oxygen during the transport and storage of the additive.

**EnerPlastics** is the only Manufacturing Company in the MENA Region that provides two different grades of OBDs to meet varying customers and market requirements. Both grades are packed in vacuum sealed aluminum bags placed in Laminated PP Bags with PE Liners.

EP OBD is susceptible to light, heat and oxygen. It is highly recommended that once the Aluminum bag is opened, it be consumed in the shortest time possible in order to perform its full function when mixed and blown into a film. To assist smaller film convertors, EnerPlastics can supply the product in identical packing of 10 Kg, subject to prior enquiry.

Certified by Saudi Standard, Metrology and Quality Org as per SASO 2879/2016 Degradable Plastic Products.

Certified by Centre National d’Evaluation de Photo Protection (CNEP), Université Blaise Pascal, France and Synthèse et Etude de Systèmes à Intérêt Biologique (SEESIB) as per AFNOR AC T51-808-2012. CNEP/SEESIB are the only research centers in the world that have been doing research on the degradation of plastics for 31 years. (Applicable for OBD-2)

Tested in China National Centre for Quality Supervision & Test of Plastic Products according to GB/T 20197-2006 and HJ/T 209-2005 Standard of degradable plastics. (Applicable for OBD-2)

AP (89) 1 food contact approval certificates from SGS.