

Polysharif-Oxo-Deg Masterbatch

Oxo-degradability for polyolefin final products



B. P. Sharif Co. products, trade name of Polysharif®, is supplied to the market as Functional Polymeric Masterbatch Granules for the purpose of doing a function and duty in polymeric final products. One of the most useful masterbatch is Polysharif-Oxo-Deg Masterbatch which can be employed in food packaging as trays and flexible films. The base of the masterbatch is low density polyethylene (LDPE).

The Oxo-Deg. masterbatch is added during the melt processing of the final product in the range of 1 to 2 wt.%, depends on the application and type of the products. Utilizing this product, the final product can be degrade through two years in environment. Heat and sunlight are the main factors which affect the oxidation process. Therefore, these two parameters can reduce the molecular weight of the polyolefin. Then the shorten molecules can be consumed by the micro-organisms.

Oxo-biodegradable plastics are commonly used for lightweight carrier bags, packaging films and disposable bags. The oxo-degradability is evaluated according to ASTM D6954-04. This product has Iranian national standard according to ISIRI 14417. Our Oxo-deg. Masterbatch, in contrast with other commercialized oxo-degrdable masterbatch, is free from heavy metals, consequently, it will provide the lowest environmental pollution.

Polysharif-OxoDeg specifications:

- Ease of processing for any blown and extruded film products,
- Without any change in processing parameters,
- Without and color change
- Less than two years degradability
- Free of heavy metals
- Low cost and affordability

