

## CORAPLAST DEGRADABLE PTD 1002

### Description:

**Coraplast PTD 1002** is a photo and thermo-degradable masterbatch. It will degrade a 20 micron classical LDPE film, containing 6 % of **PTD 1002** and exposed in a Sairem-Sepap, within 15 hours down to its 50 % residual elongation versus the film without **PTD 1002** will take about 300 hours.

It contains active ions that will help the polyethylene to degrade :

- At a rate depending on the amount of antioxidants, which will counteract the degradation.
- The thermodegradable additive will speed-up the OXO-degradability of the resin,
- The photodegradable additive will mineralize the remaining lumps of the film and the total of the degradable additive package will convert the rest into carbon dioxide, water and finally into biomass by the microorganisms.

### How to use PTD 1002:

- Adding 6 % **PTD 1002** to a natural HDPE films, used as shopping bags, and exposed in a Sairem-sepap, will totally degrade the film into lumps within 48 hours and the film without **PTD 1002** will take > 300 hours.
- The final degradability will depend on: the density of the base resin, the melt index (molar weight), the additive package, the intensity of exposure which means where it is exposed and how long (140 kLy in North of India and 220 kLy in the south of India.)
- Some physical properties:
  - Carrier resin = LDPE
  - Specific gravity = 0,93 grams/cm<sup>3</sup>
  - Bulk density = 600 grams/liter
  - Moisture content = <0,15 %

\* Detailed information on FOOD CONTACT is available upon request.

### Packaging and Storage:

**Coraplast PTD 1002** is packed into woven bags with a liner. It can be stored inside during maximum 3 months at 30°C.

**Note:** Opened bags must be closed immediately after use.



This information is correct to the best of our knowledge, but we would recommend that users make their own assessment to confirm that the material meets their requirement.