

CORAPLAST DEGRADABLE PD 1001

Description:

The principle of **Coroplast PD 1001** has been tested by the “institute of soil science” at the Royal College of Forestry in Stockholm. Adding 6 % to a 12 micron LDPE film will make of this film a photochemically and thermally degradable film. It will not degrade before this film was exposed to UV light and once exposed to UV light, the film will continue to degrade. Once the film is transformed into a fine powder having a mol weight of around 500 to 1000, micro-organisms will start digesting it.

How to use PD 1001:

- Many experiments have shown that an average of 6 % is required to have an optimum degradation profile. This depends on :
 - The thickness of the film,
 - The type of resin (density) ,
 - Its antioxidant package,
 - Temperature of exposure.
- Test results of a 12 micron cornfilm (field coverage) made out of Dowlex 2045 and exposure in a Sairem-Sepap (French apparatus used by the French agriculture) :
 - Dowlex degrades down to a residual elongation of 50 % in about 220 hours exposure,
 - The Dowlex containing 6 % **PD 1001** degrades until 50 % in about 40 hours
- Some physical properties:
 - Carrier = LLDPE
 - Moisture content = < 0,15 %
 - Bulk density = 600 grams/liter
 - Specific gravity = 0,92 grams/cm³
 - Colour = brown pellets
- Detailed information on FOOD APPROVAL is available upon request.

Packaging and Storage:

Coroplast PD 1001 is packed in 25 kg woven bags with a liner. It can be stored inside for 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.