



# ecoFilm®, Patented Compostable film



## PRODUCT DeSCRIPTION

EcoFilm is a certified compostable film designed to replace traditional nondegradable films such as low density and high density polyethylene's. It also provides superior mechanical properties and stability in comparison to other compostable films on the market. EcoFilm has been certified compostable by both DIN CERTCO and the Biodegradable Products Institute per EN 13432 and ASTM D6400 respectively. Unlike some compostable films, EcoFilm is heat and water stable and does not prematurely break down while in use making it ideally suited for organic waste collection and community composting programs.

The exact time needed for EcoFilm to biodegrade is dependent upon the conditions and activity of the disposal environment (temperature, soil quality, activity of microorganisms). When placed in a typical commercial composting environment, EcoFilm will fully biodegrade into carbon dioxide and water within a matter of weeks. There is no ecotoxicity to the soil, plants, or microorganisms involved in this process. Since microorganisms are the means for biodegradation, EcoFilm is shelf and curb stable and will retain its integrity until disposed of properly.

EcoFilm is available in a variety of sizes and constructions offering an environmentally friendly alternative for applications ranging from grocery bags to export shipping.

## Features:

- 100% Compostable per ASTM D6400 and DIN EN 13432
- Environmentally friendly
- Shelf and curb stable
- Superior mechanical properties



Time Lapse Approximately 4 Months

## APPLICATIONS

- Export packaging
- Garbage and Mulch bags
- Grocery Bags
- Toy Packaging
- Parts Packaging
- Community composting programs
- Food and yard waste

## Shelf Life

For shipping and storage applications, EcoFilm is a great alternative to conventional polyethylene films. EcoFilm has a shelf life of up to two years, when sealed in original packaging.

Once removed and put to use, EcoFilm will remain effective with regard to mechanical strength until the film is placed in contact with material containing microorganisms, such as certain types of waste, soil, and compost. Under these conditions, 100% disintegration will occur within weeks with no residual contamination of the soil.

## Packaging

EcoFilm is available in standard 36" (91.4cm) and 48" (91.4cm) rolls as well as a wide variety of custom sizes and forms ranging from 0.5mil-6mil (12.5  $\mu$ -150 $\mu$ ). Custom forms include single wound sheeting, double wound sheeting, U-sheets, M-sheets, center folds, gusset tubes, and converted bags made from these types of films and perforated or bag-on-roll products.



| Mechanical Properties   |         |                              |        |         |         |         |         |         |
|---|---------|------------------------------|--------|---------|---------|---------|---------|---------|
| Property  |         | Test Method                  | Units  | ecofilm |         |         |         |         |
| Caliper   |         | ASTM D6988                   | mil    | 2.00    | 1.50    | 1.00    | 0.75    | 0.50    |
| Breaking Factor   | MD      | ASTM D882-02                 | lbs/in | 12.94   | 8.90    | 7.09    | 5.34    | 3.70    |
|   | TD      |                              |        | 11.88   | 8.58    | 7.14    | 4.19    | 3.49    |
| Tensile Strength at Break   | MD      | ASTM D882-02                 | psi    | 6443.20 | 3929.58 | 5727.05 | 6482.24 | 6646.19 |
|   | TD      |                              |        | 6095.21 | 6230.55 | 5815.62 | 6772.38 | 5400.12 |
| Elongation at Break   | MD      | ASTM D882-02                 | %      | 723.78  | 639.87  | 514.07  | 333.72  | 241.20  |
|   | TD      |                              |        | 15.86   | 739.90  | 738.38  | 577.91  | 599.04  |
| Yield Strength  | MD      | ASTM D882-02                 | psi    | 1948.42 | 594.65  | 1840.46 | 2909.91 | 3192.88 |
|   | CD      |                              |        | 793.05  | 1149.04 | 1224.94 | 1423.94 | 1252.55 |
| Tear Strength   | MD      | ASTM D1922-06a               | mN     | 1648.08 | 685.39  | 204.05  | 166.12  | 74.92   |
|   | CD      |                              |        | 3413.88 | 3099.96 | 2079.72 | 2095.42 | 953.54  |
| Dart Drop Impact Resistance   |         | ASTM D1709-04, Test Method A | grams  | >1300   | 1043.33 | 545.25  | 241.77  | 183.99  |
| Coefficient of Friction   | Static  | ASTM D1894                   |        | 0.19    | 0.18    | 0.16    | 0.10    | 0.16    |
|   | Kinetic |                              |        | 0.19    | 0.20    | 0.15    | 0.03    | 0.17    |
| *Typical properties represent average laboratory values and are not intended as specification but as guides only. |         |                              |        |         |         |         |         |         |

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