



Patented Eco Film® Compostable Bags / Retail & Household Packages

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 polyethylenes. 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 μ-150μ). 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.

FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN
KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION
CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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