

**ECOSAFE®
DEGRADABLE
PLASTIC**



ECOSAFE® DEGRADABLE TRASH & GARBAGE BAGS



REVOLUTIONARY ECOSAFE™ PLASTIC

New Natural Value EcoSafe® Degradable Tall Can Kitchen Bags and Garbage Bags are engineered to provide the service and performance of ordinary plastic but **will totally fragment and disintegrate in 12 to 24 months** when disposed of in a landfill or in our environment, should it become litter. EcoSafe® products with TDPA® have undergone stringent testing. In landfill trials, at ambient temperatures of 20°C to 35°C, TDPA® modified plastic lost more than 95% of their molecular weight in less than 10 months. The EcoSafe® message is clear and proven. EcoSafe® Degradable products provide the performance of “ordinary” plastic in use but when modified with TDPA® additives the natural oxidative process is accelerated by factors of 100, 1000 and more, causing the modified plastics to totally degrade and fragment in highly predictable and controllable timeframes.

EcoSafe® products with TDPA® establish “controllable lifecycles” for commodity polyolefin products so that once used, they are safely returned to the natural bio-cycle as fragments of “organic carbon.” Carbon that can be attacked ingested and mineralized by microorganisms in a natural biological process to free-up air space in our landfills and **help mitigate the problem of “accumulating” plastic litter in our environment** and watersheds.



TALL KITCHEN BAGS

706173-020301



LARGE TRASH BAGS

706173-020318

FAQ:

NATURAL VALUE'S REVOLUTIONARY NEW ECOSAFE® DEGRADABLE GARBAGE BAGS



Q What have you done to EcoSafe™ products to make them degradable?

A EcoSafe™ products contain a proprietary additive called DCP® (degradable compostable plastic), which is added to the plastic in the manufacturing process.

Q How do I know EcoSafe™ products are degradable?

A They are deemed degradable by the application of American Society of Testing and Materials (ASTM) terminology and compliance to the testing standards, including and in part by, but not limited to:

- D3826 - Degradation End Point in Degradable PE and PP Films
- D5208 - Photodegradable Plastic Exposed to UV Light
- D882 - Tensile Properties
- D5272 - Outdoor Exposure Testing of Photodegradable Plastics
- D5510 - Heat Aging of Oxidatively Degradable Plastics
- D1238 - Test Method for Flow Rates of Thermoplastics
- D883 - Definitions of Technical Terms

Q Can I recycle products that are made of degradable plastics?

A Yes, EcoSafe™ plastic products carry the appropriate recycling designation and will not contaminate recycle feedstock.

Q How do I dispose of these products?

A We encourage recycling however, if you dispose of an EcoSafe™ degradable plastic product with your regular garbage it will totally fragment in the landfill.

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Q How long does it take for EcoSafe™ products to begin disintegrating and what temperature is required?

A The heat normally produced in the landfill is sufficient to start the degradation process. Degradation will start within months of disposal and the bag will fully fragment in 24 to 30 months. Plastics have been in commercial use for less than 90 years so no one really knows how long non-degradable plastic will last in landfill.

Q What happens to the product when it degrades?

A The additive accelerates the natural degradation process causing the plastic to discolor, become brittle, and break apart. It will break into smaller and smaller pieces until it virtually becomes undetectable, thereby freeing up valuable air space.

Q Will EcoSafe™ products start to degrade before I use them?

A No they will not. What is different about EcoSafe™ products is they have a “best if used before” date that allows plenty of time for them to be used before they start to degrade. The egradation process will only start if the product is exposed to Heat, Ultraviolet Light, or Mechanical Stress.

Q Will water cause EcoSafe™ garbage bags to weaken or leak?

A No, water does not compromise the strength or serviceability of these products.

Q Are EcoSafe™ degradable plastic products as strong as “normal plastic” products?

A Yes they are. The addition of DCP® does not compromise any of the good qualities of normal plastic except that EcoSafe™ products are engineered to last only as long as required for normal use and are designated with a “best if used before” date.

Q How much heat is required to start the degradation process?

A If the product were to be stored in a place where the temperature reached a constant 52°C/125°F for 25 to 30 days, the product would likely start to slowly degrade.

Q What is ultraviolet light?

A Ultraviolet light is sunlight. If a degradable product were to be exposed to sunlight for 30 to 40 days, it would start to slowly degrade.

Q What is mechanical stress?

A Mechanical stress is tearing or stretching of the plastic. When degradable products are stretched or torn, over time they will slowly degrade.

Q Can the degradation process be stopped once it starts?

A No. The process can be slowed, but it can not be stopped.

Q If a degradable product were to become litter would it still degrade?

A Yes it would. While we do not encourage nor condone littering the environment with plastic, if it were to inadvertently become litter, and be exposed to sufficient heat, sunlight, or mechanical stress, it would degrade.

Q How can I safely store EcoSafe™ products without them starting to degrade?

A EcoSafe™ products can have a shelf life of 18 months if stored as follows:

- Store away from direct sunlight.
- Avoid storage areas with excessive heat, preferably with a temperature below 30°C/86°F.
- Store in original packaging.

ORDERING INFORMATION

DESCRIPTION	UPC	CS/PK	WT.	CUBE	PALLET	ITEM DIMENSION	CASE DIMENSION
Tall Kitchen Bags	706173-020301	12/15 ct	6.7	.34	24 x 6	2.38 x 2.38 x 6.75	10.06 x 7.69 x 7.4375
Large Trash Bags	706173-020318	12/10 ct	9.1	.4	26 x 5	2.25 x 2.25 x 9	9.38 x 7.31 x 9.69