d_2w® Biodegradable

A scientifically proven plastic technology

d_2w is a masterbatch technology which converts ordinary plastic, at the end of its useful life into a material with a different molecular structure.

At the end of the process, it is no longer a plastic, and has changed into a waxy material which is biodegradable, by bacteria and fungi, in the open environment.

With over 20 years of scientific research behind it, d_2w biodegradable technology is perfect to use with most types of single-use plastics, including bags, packaging films and P.E. bottles.

Tested to the following international standards:

American Standard: ASTM D6954
British Standard: BS 8472
British PAS 9017: 2020
French Accord: T51-808
Saudi Standard: SASO 2879
UAE Standard: 5009:2009
Mexican Standard: NMXE-E-288-NYCE

Scan the QR code to see d_2w in action:

Making Plastic Smarter
Symphony environmental

www.d2w.net

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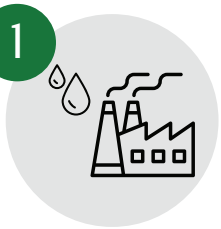
The life cycle of plastic products enhanced with d_2w biodegradable technology

1



Only 1% of d2w masterbatch is added to regular plastic at the manufacturing stage

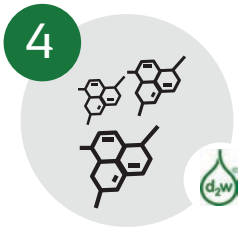
2

Products and packaging made with d_2w look, feel and perform like regular plastic

3

They can be recycled if collected - but if they escape into the open environment

4



Oxygen will help to convert the plastic into biodegradable materials

Without leaving toxic residues or microplastics behind.

Stages of biodegradation with d_2w® technology:

1. d_2w® masterbatch is added at the manufacturing stage.
2. Film containing d_2w® is extruded and then converted into bags or packaging.
3. The product behaves like conventional plastic during its intended service life.
4. After its service life, the bag or packaging should be responsibly disposed of, but may end up in the open environment.
5. The d_2w® then takes effect and the product degrades in the presence of oxygen.
6. The product will degrade and biodegrade in a continuous, and irreversible process, leaving nothing but carbon dioxide, water and humus.

Added Value with d_2w®

- Only 1% inclusion rate.
- Works with virgin and recycled plastic.
- Works with PE & PP.
- No change to the manufacturing process.
- Product does not lose any of its original properties during its useful life.
- Our customers receive full support from Symphony's Technical and Marketing teams.

Helping to protect the environment from persistent plastic litter.

d_2w is tested to work in terrestrial and marine environments.

Straws

Coffee Pods

Bread Bags

bsi ISO 9001 Quality Management Systems CERTIFIED FM37939 ISO 14001 Environmental Management CERTIFIED EMS 567450

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