

Making Plastic Smarter   
**Symphony**  
environmental



# Controlled-life plastic technology

d<sub>2</sub>w is the only oxo-biodegradable (controlled-life) plastic additive to be awarded an internationally recognised Eco-Label.



[www.d2w.net](http://www.d2w.net)

# Controlled-Life plastic technology



A masterbatch which turns ordinary plastic at the end of its useful life, in the presence of oxygen, into a material with a different molecular structure. At the end of that process, it is no longer a plastic and has become a material which will biodegrade in the open environment in the same way as a leaf.



## Stages of oxo-biodegradation with d<sub>2</sub>w technology:

1. d<sub>2</sub>w masterbatch is added at the manufacturing stage.
2. Film containing d<sub>2</sub>w is extruded at the factory and is made into bags or packaging.
3. The product behaves like a conventional product during its intended service life.
4. After its service life, the bag or packaging may end up in the open environment.
5. The d<sub>2</sub>w then takes effect and the product begins to degrade in the presence of oxygen.
6. The product eventually biodegrades to nothing more than carbon dioxide, water and biomass.

## Added Value with d<sub>2</sub>w

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

## Standards – The following standards are used for testing products containing d<sub>2</sub>w

- British Standard 8472
- American ASTM D6954
- United Arab Emirates Standard 5009:2009
- French Accord T51-808



**Protecting the environment with controlled-life plastic.**

**Disclaimer:** The information provided is general information. For specific applications, please consult our Technical Department. Supplies of d<sub>2</sub>w are conditional upon regulatory approval for the purpose(s) concerned in the country or countries concerned.



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