

Biodegradable plastic

A scientifically proven technology*



An environmentally responsible solution for your plastic product, film, or packaging needs.



Biodegradable plastic technology



A masterbatch technology 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 the process, it is no longer a plastic, and has changed into a material which is biodegradable (by bacteria and fungi) in the open environment.



Stages of oxo-biodegradation with d₂w® technology:

1. d₂w® masterbatch is added at the manufacturing stage.
2. Film containing d₂w® 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 may end up in the open environment.
5. The d₂w® then takes effect and the product begins to degrade 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 biomass.

Added Value with d₂w®

- 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.

Standards – The following standards are used for testing products containing d₂w®

- ✓ American ASTM D6954
- ✓ British Standard 8472
- ✓ United Arab Emirates Standard 5009:2009
- ✓ French Accord T51-808
- ✓ Saudi Standard SASO 2879



Helping to protect the environment from persistent plastic litter.

Disclaimer: The information provided is general information. For specific applications, please consult our Technical Department. Supplies of d₂w® are conditional upon regulatory approval for the purpose(s) concerned in the country or countries concerned. Advertising and labelling are the responsibility of the buyer.



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