Oxo-biodegradable plastic

A scientifically proven technology

An environmentally
responsible solution
to your plastic film and
packaging needs.

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Making Plastic Smarter
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QUALIDADE-ABNT-AMBIENTAL
PE-308

Oxo-biodegradable 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 the process, it is no longer a plastic, and instead has changed to a material which is biodegradable (by bacteria and fungi) in the open environment.
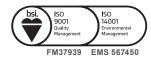

Stages of oxo-biodegradation with d_2w technology:

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 may end up in the open environment.
5. The d_2w then takes effect and the product begins to degrade in the presence of oxygen.
6. The product will degrade and biodegrade in a continuous, irreversible and unstoppable process leaving nothing more than carbon dioxide, water and biomass.

Added Value with d_2w

- Requires only 1% inclusion rate.
- Works with virgin and recycled plastic.
- Works with PE & PP.
- 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_2w

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

Protecting the environment with oxo-biodegradable plastic.

Disclaimer: The information provided is general information. For specific applications, please consult our Technical Department. Supplies of d_2w are conditional upon regulatory approval for the purpose(s) concerned in the country or countries concerned.

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