

SYCRO ENVIRONMENTAL

Sycro manufactures and supplies d2w Oxo-Biodegradable plastic refuse & carrier bags that are environmentally friendly and do not look, feel or behave any different to traditional plastics.

DID YOU KNOW?

BIOSOURCED PLASTICS

Are they really the wonder alternative to fossil-based plastics?

According to a report in Phys.org the Heinrich Boll Foundation “In its “Atlas of Plastic”, estimates that most bio sourced plastics are neither completely biodegradable nor compostable, and “actually just sidestep the problem”.

For Nathalie Gontard, research director at the French National Institute for Agriculture, Food and the Environment, bio sourced plastic “has absolutely no benefit” because these polymers don’t degrade in natural conditions but instead fragment into micro- and then nano plastics. “What matters is biodegradability under natural conditions,” she said.

The environmental benefit of bio sourced plastic lies in how they reduce the CO2 emissions of the plastics sector. But caution is needed here, because additional demand for land to grow the raw materials for bio sourced plastics can lead to land-use changes or deforestation, the OECD has warned, which in turn can increase CO2 emissions. Agricultural land should be used primarily to feed the population.

MAKING ORDINARY PLASTIC INTELLIGENT

WHAT IS d2w?

d2w is the brand for controlled-life plastic technology which is designed to control the life of ordinary plastic products. d2w is a carefully researched and tested additive formulation which is added to ordinary plastic at the extrusion or casting stage of manufacture.

d2w oxo-biodegradable plastics has a pre-programmed life. There is little or no extra costs.

During its service-life, the properties of ordinary plastics such as strength, flexibility, printability, seal ability, processing temperatures and speed are not affected at all. Almost all kinds of plastics – not just carrier bags! Only 1% dosage (for most plastics) is required and d2w products can be made with the same machinery and workforce as before, with no need to change suppliers too.

At the end of its useful service life, the process of oxo-biodegradation starts and the plastic will eventually be broken down into water, carbon dioxide and biomass. The plastic will degrade and then biodegrade in the dark or sunlight, heat or cold, land or sea, leaving NO fragment, NO methane, NO harmful residues thus avoiding pollution and damage to the environment and wildlife.



Food Safe

Smart plastics used throughout a wide spectrum of industries has been tested, and proven safe for food, medical, farming and many other applications.



Strength & Quality

Feels, looks, and it just as strong as ordinary plastics.



Limitless Application

d2w additives can convert your ordinary plastics to smart plastics easily, as well as be formulated to specific needs.

HOW IT WORKS



D2w products look, feel, and act the same as conventional plastics (until they degrade).

Degradation triggered in the presence of oxygen, sped up by heat, UV and/or mechanical stress.

Molecular structure breaks down until the material is no longer a polymer (NO defragmentation).

Material ends up as H₂O, CO₂, and Biomass



You can purchase d2w plastic bags (sizes below) or purchase the d2w additive itself for manufacturing.