



Eliminating microplastic waste

SPTek ECLIPSE™ equips products with a tailor-made guaranteed functional life span while retaining 100% recyclability, ensuring that they can be effectively used, collected, and recycled.

If these products evade the recycling system, ECLIPSE™ provides a crucial safety net by ensuring complete bio-assimilation in natural or landfill environments within 6–42 months, resulting in zero microplastics.

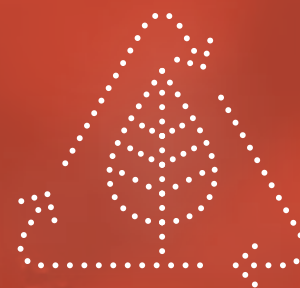
- Patent-pending bio-assimilation technology
- Designed for use in polyolefins like PE & PP
- Tailor-made guaranteed functional lifespan ensures products can be effectively used, collected and recycled
- If not successfully collected for recycling during this period, will rapidly bio-assimilate
- Bio-assimilation process occurs over a 6–42 month period, depending on environmental conditions
- Process fundamentally transforms the molecular structure of polyolefins
- Results in zero microplastics
- Works in marine, terrestrial and landfill environments
- Proven reliability through extensive independent testing
- Only 1% inclusion in production process
- 100% recyclable
- ASTM 5511 Compliant
- ASTM 6954 Tier 1 Equivalent
- FDA approved

Maximizing the potential of plastic

Plastic is deeply engrained in our everyday lives and we need an immediate yet sustainable solution to the plastic waste crisis. Designed to protect the health and well-being of both people and planet, our performance additives serve to reduce environmental impact while profoundly enhancing the behavior and beneficial properties of plastic.

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ECLIPSE™
BIO-ASSIMILATION

ANTIFUNGAL

ANTIMICROBIAL

ANTIFUNGAL +
ANTIMICROBIAL

LIQUID ANTIMICROBIAL

BIO-BASED CaCO_3

PRODUCT I.D.

SUSTAINABLE
POLYMER
SOLUTIONS

smartplastic™



CHANGE THE PLASTIC BETTER THE PLANET

Applications

- All polyolefins (such as polyethylene and polypropylene)
- Protective packaging: stretch film, shrink film, bubble wrap
- Extruded films: printing, laminating, barrier, sealant
- Short service life items: trash bags, shopper bags, fast food packaging
- Agricultural film applications: mulch, crop protection materials
- Food service items: straws, lids, stir sticks, cutlery, cups, plates
- And many other applications

Benefits

- Zero capital investment required
- No interference to production processing
- Low inclusion rate (1%)
- Compatible with recycled polyolefins
- Guaranteed functional life can be customized
- 100% recyclable and designed for circular models
- If not recycled, will bio-assimilate in marine, terrestrial and anaerobic landfill environments
- Critical safety net to protect against microplastics

Our solutions represent a game-changing shift in polymer science. As a disruptor in waste management, environmental and human wellness spaces, we are revolutionizing the sustainability of plastic and transforming its very nature for the benefit of both people and planet.

We are relentless in our pursuit of plastics that retain all of the benefits while bringing an end to global plastic waste. Backed by extensive scientific research and conclusive third-party testing, all of our products are 100% recyclable, FDA approved and purposefully designed for the circular economy.

smartplastic™

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