SPTek

OYSTERLEAN™

RENEWABLE BIO-BASED $CaCO_3$

Improving plastics with bio-based calcium carbonate

OYSTERLEAN™ reduces the environmental impact of plastic with renewable bio-based calcium carbonate sourced from oyster shells. This technology improves the mechanical characteristics of plastic, reduces processing times/ temperatures and the dependence on fossil fuel-based resins.

- White bio-based material derived from oyster shells
- Sourced from oyster farms during harvesting
- Bio-based source of calcium carbonate
- Contains carbon-14 or "new carbon"
- Reduces carbon footprint of packaging
- Can replace fossil fuel-based resins in plastic packaging by up to 50%
- Compatible with all polymers (PE, PP, PS, PET, etc.)
- Proven reliability through extensive independent testing
- Available in a resin carrier or in powdered form
- 100% renewable
- Does not impact recyclability
- FDA approved

BIO-ASSIMILATION

ANTIFUNGAL

ANTIMICROBIAL

ANTIFUNGAL + ANTIMICROBIAL

LIQUID ANTIMICROBIAL

ODOR ELIMINATOR

OXYGEN SCAVENGER

OYSTERLEAN™
BIO-BASED $CaCO_3$

PRODUCT I.D.

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.

SUSTAINABLE POLYMER SOLUTIONS

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smartplastic™

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Applications

- Food packaging: rigid containers, clamshells, trays
- Bottles and containers: shampoo, conditioner, detergent, pharmaceutical
- 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
- Building materials
- And many other applications

Benefits

- Improved material flow and machine throughput
- Reduces energy usage in the manufacturing process
- Extremely effective bio-based whitening agent that can replace chalk, talc, limestone and titanium dioxide
- Lowers the carbon footprint (CO_2) by 80–90% in comparison to polyethylene (PE)
- Can reduce the climate impact in polythene shopper bags up to 40%

CHANGE THE PLASTIC BETTER THE PLANET

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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