

## 鮮活家®除味(甲醛)抗菌保鮮環保塑膠 PE/PP/PET/EPE v.2013-3

FreshMagic® anti-odor (formaldehyde) /anti-bacterial/ freshness preservation plastics

鮮活家®除味(甲醛)抗菌保鮮塑膠，採用無毒、環保的 *可程式化*物理吸附機制，是以多孔性材料提煉而成。所搭配採用的降解機制(例如 Reverte™)，符合國際驗證標準，在經過光曝曬後，可在土壤裡可轉化成水、二氧化碳和有機物，不會造成環境的負擔。

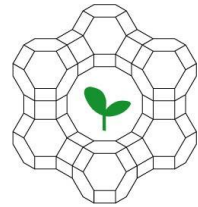
FreshMagic® anti-odor (formaldehyde)/anti-bacterial/freshness preservation plastic uses porous base material for its non-toxic, environmentally-safe programmable mechanism by physical ways instead of chemicals used traditionally. The oxo-biodegradable mechanism used by FreshMagic® (such as Reverte by Wells, etc.) has been certified by various third party verifications to comply with international standards like ISO or ASTM D6594-4, and can demonstrate by massive field studies to show robust biodegradation of the residue under either aerobic or anaerobic conditions, reducing the oxidised material to carbon dioxide/methane, water and biomass, to be used as plant nutrition without toxic effects.

- 可程式化-除味(甲醛)抗菌保鮮-特點: 應用納米石®之多孔隙載體技術，搭配各種物理性除味(甲醛)、抗菌、保鮮機制，可以針對性、長效性、緩吸緩放性的進行除味、抗菌及保鮮處理，為一有機環保方法。

- Programmable anti-odor (formaldehyde)/anti-bacterial/freshness preservation feature: by using of ZEO® porous hole structure buffer technology, FreshMagic® plastics can provide various physical anti-odor (formaldehyde), anti-bacterial and freshness preservation functions with specific, targeting, sustainable, and slow-in-slow-out mechanisms. It demonstrates a green and sustainable functional process without any burden to earth.

- 環保光可降解特點:傳統塑膠，使用PE/PP/PET/EPE等塑膠材質，易造成二次污染不環保；而使用玉米原料為基底的PLA地膜，一方面成本高昂，加工不易，容易損耗，一方面因為採用玉米澱粉為原料，有與窮人搶糧食的疑慮，造成糧價上升的隱患。FreshMagic®塑膠可搭配採用最高級有效的光可降解原料(例如 Reverte™)，利用市場上最先進的氧化式生物降解技術，有具體和完整的試驗資料可證明材料的氧化降解和生物分解性能。

- 100% Oxo-biodegradable feature: traditional plastics use PE/PP/PET/EPE that cause second pollutions after usage; while PLAs made of corn starch suffer by either very costly or causing problems of food price rising because of corn starch shortage. FreshMagic® plastics can optionally employ state-of-the-art Oxo-biodegradable technology (like



Reverte™) and materials that show robust and solid experimental data with massive field studies to demonstrate effective biodegradation and oxidization properties.

- 成本優勢: 生產廠商無需對機器進行改裝或增加額外的投資即可用很經濟的方式生產FreshMagic®環保功能型塑膠。使用時，只需少量的添加比例（一般為1-3wt%）就能產出除味(甲醛)抗菌保鮮塑膠，同時可以選配使聚烯烴(PE)成為氧化式生物降解產品。

- Cost Advantages: Neither equipment modifications nor extra installations required to produce cost-effective FreshMagic® plastics for anti-odor (formaldehyde) / anti-bacterial / freshness preservation applications. It only requires very limited 1% to 3% addition of FreshMagic® plastic compound additives into the master batch of plastic particles during production, and it will also optionally make PE/PP/PET/EPE products become oxo-biodegradable as programmed.

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