

## 鲜活家®可降解除虫抗菌环保农膜/地膜 v.2013-3

FreshMagic® Biodegradable insect-repellent/anti-bacterial Agricultural/Mulch Films

FreshMagic®除虫抗菌环保农膜/地膜采用无毒、环保的*可程序化*物理防虫机制，是可以完全光可降解的环保材料。所采用的降解机制，符合国际验证标准，在经过光曝晒后，可在土壤里可转化成水、二氧化碳和有机物，不会造成环境的负担。

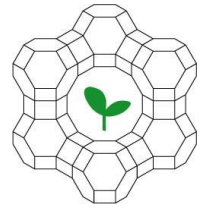
FreshMagic® insect-repellent/anti-bacterial agricultural/mulch film uses 100% oxo-biodegradable plastics for its non-toxic, environmentally-safe programmable insect repellent and anti-bacterial mechanism by physical ways instead of chemicals used traditionally. The oxo-biodegradable mechanism used by 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.

- 可程序化除虫抗菌特点:应用纳米石®之多孔隙载体技术，搭配各种物理性防虫、抗菌机制，可以针对性、长效性、缓吸缓放性的进行除虫、抗菌处理，为一有机环保的永续农业作业方式。

- Programmable insect-repellent/anti-bacterial feature: by using of ZEO® porous hole structure buffer technology, FreshMagic® mulch films can provide various physical insect-repellent and anti-bacterial functions with specific, targeting, sustainable, and slow-in-slow-out mechanisms. It demonstrates a green and sustainable agricultural insect repellent and anti-bacterial process without any burden to earth.

- 环保光可降解特点:传统塑料农膜或地膜，使用PE等塑料材质，易造成二次污染不环保；而使用玉米原料为基底的PLA地膜，一方面成本高昂，加工不易，容易损耗，一方面因为采用玉米淀粉为原料，有与穷人抢粮食的疑虑，造成粮价上升的隐患。FreshMagic®除虫抗菌环保农膜/地膜采用最高级有效的光可降解原料，利用市场上最先进的氧化式生物降解技术，有具体和完整的试验数据可证明材料的氧化降解和生物分解性能。

- 100% Oxo-biodegradable feature: traditional agricultural or mulch films use PE plastics that cause second pollutions after usage; while PLA agricultural films made of corn starch suffer by either very costly or causing problems of food price rising because of corn starch shortage. FreshMagic® agricultural films employ state-of-the-art Oxo-biodegradable



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

- 成本优势: 生产厂商无需对机器进行改装或增加额外的投资即可用很经济的方式生产FreshMagic®除虫抗菌环保农膜/地膜。使用时,只需少量的添加比例(一般为1-3wt%)就能产出除虫抗菌能力的农膜或地膜,同时使聚烯烃(PE)成为氧化式生物降解产品。

- Cost Advantages: Neither equipment modifications nor extra installations required to produce cost-effective FreshMagic® mulch films for insect-repellent and anti-bacterial 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 make PE/PP/PET films become oxo-biodegradable as programmed.

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