



## Understanding Envirofilm technology and benefits

### **Q1. Which polymers does it work in?**

Envirofilm is suitable for use in LDPE, HDPE, Polystyrenes and PET's.

### **Q2. Is Envirofilm food safe?**

**Yes** – Plastics products containing Envirofilm are safe.

### **Q3. Will the shelf life of end-user products be affected?**

**No** – Envirofilm does not activate until it goes to Landfill or Composting. The ingredients will not affect your product in the warehouse, on the shelf our average shelf life is 18 months, however we have the technology to control this element.

### **Q4. Does Envirofilm negatively affect the environment?**

**No** – Envirofilm is based on organic ingredients only, contains no heavy metals or genetically modified crops and is a 100% non-toxic.

### **Q5. Will the final product be biodegradable?**

**Yes** – Envirofilm biodegrades plastic through bacterial / microbial action.

### **Q6. Is Envirofilm a photo or oxo degradable?**

**No** – UV light or heat does not degrade products, polymer chains are broken down by a chain processes enabling the products to become compostable.

### **Q7. Will Envirofilm based product be Compostable?**

**Yes** – Compostability regulations mean that a product must be over 90% degraded within a 180 day period in accordance to EN protocol for cellulose based product. Envirofilm products will breakdown in home or industrial composters.

### **Q8. Will my Envirofilm based product conform to EN 13432?**

**Yes** – EN13432 is a regulation designed to protect the integrity of biodegradation and industrial composting. The requirement is for fast biodegradation of products to be converted into CO<sub>2</sub> and bio-mass.

### **Q9. How fast will my Envirofilm products biodegrade?**

This depends on the thickness of the end product and on the correct bacterial/environmental conditions. Products containing Envirofilm will start to biodegrade from 90 days under composting conditions.

### **Q10. Are Envirofilm products more cost-effective compared to products made from starch?**

**Yes** – There are substantial cost savings of using Envirofilm.

### **Q10. If I use more a higher percentage of Envirofilm does it work faster?**

**Yes** – Envirofilm is infused into biofilms to biodegrade the polymers, and concentrations and percentages will affect speed and rate of biodegradation.

### **Q11. Can my Envirofilm products be recycled?**

**Yes** – Plastic containing Envirofilm can be recycled.

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## Comparison of OXO / PLA / Envirofilm Additive

	OXO	PLA/Starch	Envirofilm
Type of Degradation?	Physical	Chemical Bio	Chemical Bio
Does it make Plastic Biodegradable?	✗	✓	✓
Does it make Plastic Compostable?	✗	✓	✓
Are there any toxins in the chemical composition?	✓	✗	✗
Does it leave toxic residues after degradation?	✓	✗	✗
Are there any metals present?	✓	✗	✗
Does it comply with EN13432?	✗	✓	✓
Does it comply with ASTM D 6400?	✗	✓	✓
Can they be incorporated easily into film production?	✓	✗	✓
Does it make Plastic Biodegradable?	✗	✓	✗
Is the Food Chain negatively affected?	✗	✓	✗
Price Factor increase over Standard PE?	1.1	5	1.2