

Pioneering
OXO-BIODEGRADABLE
plastic technology

TOTALLY DEGRADABLE PLASTIC ADDITIVES



**OXO-BIODEGRADABLE
PLASTICS TECHNOLOGY**

Changing the world of
plastics with a **solution** for
you

A faint, light-colored target graphic with concentric circles and a central bullseye is positioned behind the 'OMNI PLAST' text.

**OMNI
PLAST**
PACKAGING

SUSTAINABLE DEVELOPMENT

“the development which meets the needs of the present without compromising the ability of future generations to meet their own needs”

Source: UN World Commission on Environment & Development (WCED)
Conference on the Environment and Development, Rio de Janeiro, June 1992

OMNI
PLAST

Committed to the Responsible Use and Disposal of Plastics in the Environment



WHY ARE WE HERE?

OMNIPLAST is here to offer a
cost effective, **innovative**
solution you will highly value.

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WHO IS EPI?

- International technology company
- Substantial intellectual property portfolio
- **TDPA**® Family of Additives
- **Enviro**® Cover and Deployer



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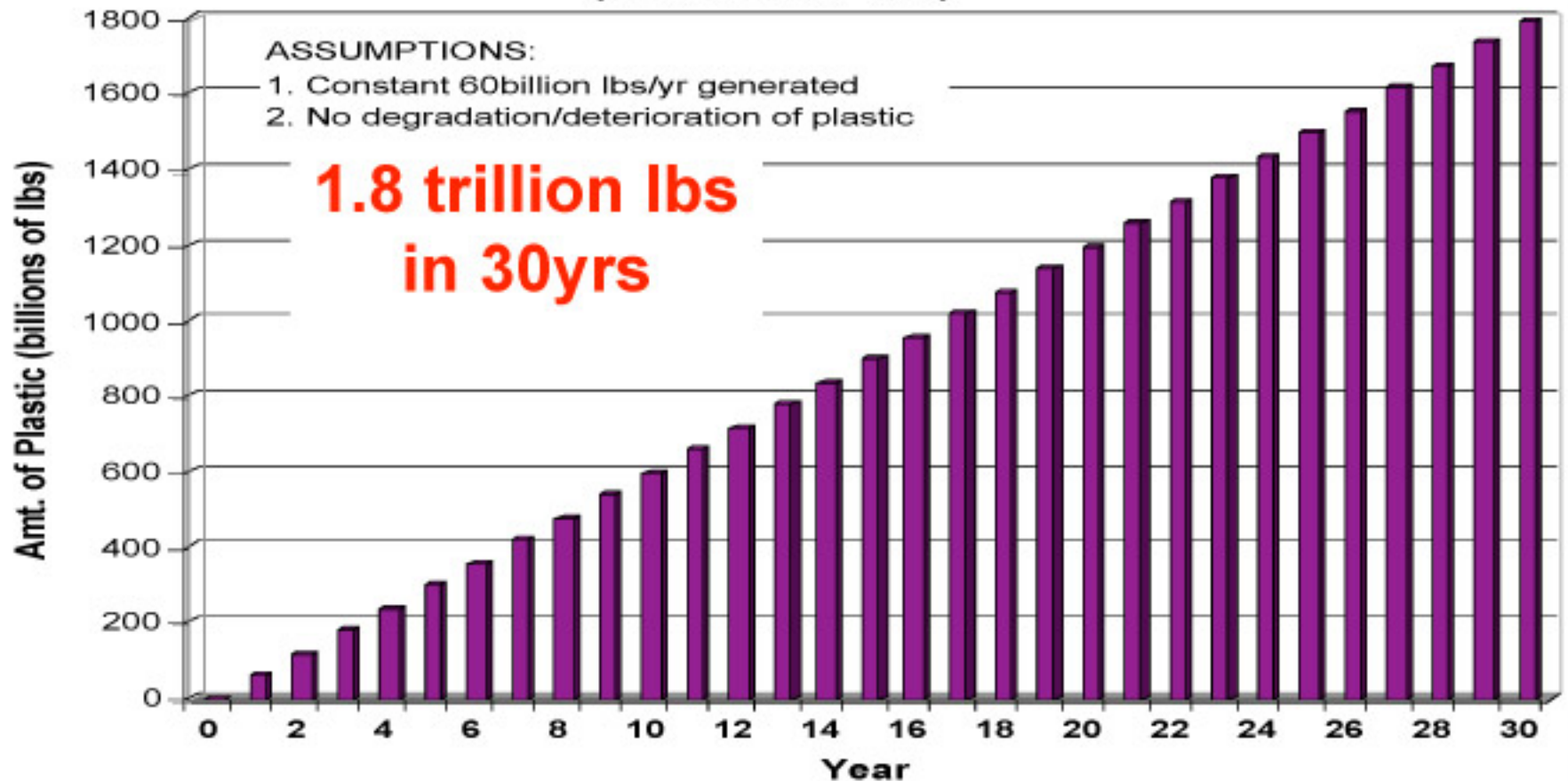
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WHY IS THIS IMPORTANT?

SIMPLIFIED WORLDWIDE SINGLE USE PLASTICS ACCUMULATION MODEL

Simplified Plastics Accumulation (billions of lbs)



WHY IS THIS IMPORTANT TO YOU?

Regions affected by legislation and governments



WHAT IS THE SOLUTION?



“The Norm”
Nondegradable



Now Available
100% Oxo-biodegradable

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WHY CHOOSE EPI'S TDPA[®] TECHNOLOGY?

Tesco's decision was based on:

1. Cost effectiveness
2. Environmental responsibility
3. Scientific validation
4. Ease of manufacturing by suppliers
5. Immediate availability
6. Enhanced Tesco's brand
7. Meeting customers' expectations and demands

PRODUCT CHARACTERISTICS

	Non-degradable	TDPA® Plastic
Tensile Strength	✓	✓
Elongation	✓	✓
Impact Resistance	✓	✓
Clarity	✓	✓
Printability	✓	✓
Permeability	✓	✓
Sealability	✓	✓
Taste	✓	✓



TDPA[®] TECHNOLOGY

Triggers for degradation:



Thermal (Heat)



Photo (UV Light)



Mechanical Stress

CONTROLLED LIFE PLASTICS

Tailored to product and/or customer requirements

With TDPA®
Additives

Without



0 days



33 days



55 days

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THE TDPA[®] SOLUTION

- Non-degradable plastics accumulate in the environment for long periods of time
- TDPA[®] plastics can be reused, recycled, and used in both landfill and compost environments
 - First oxidizing and degrading the plastic and ultimately biodegrading the plastic into carbon dioxide, water, humus and mineral salts

SUPPORTED BY “GOOD SCIENCE”

EPI works with leading universities, **institutes:**
and **technical specialty enterprises:**

- Universite Blaise Pascal (Clermont II), CNEP (France)
- Universita degli Studi di Pisa (Italy)
- University of Sussex, Brighton (UK)
- **Paper Industry Research Association, PIRA (UK)**
- **Commonwealth Scientific and Industrial Research Organization, CSIRO (Australia)**
- **Rubber and Plastics Research Association Ltd. (UK)**
- **M.J. Carter and Associates (UK)**

CUSTOMERS/USERS

Customers that use and/or distribute products using EPI technology



SUMMARY

TDPA[®] Technology is:

- Degradable/Biodegradable
- Cost Effective
- FDA/SCF Certification (SAFE)
- Processed on existing equipment
- Product characteristics unchanged
- Maintains brand image/printability
- Recyclable
- Suitable for landfill and commercial compost environments

Very Easy and Simple to Adopt

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THANK YOU !

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