

Is your packaging part of the problem?

We have the solution!

OMNIDEGRADABLE[®]





Imagine a New Group of Packaging Options that:

- Are the **ONLY** Films Self-Stable indefinitely
- Will Not break down on the shelf
- Are OmniDegradable® anywhere there are active microbes
- Works in Water, Soils, Home/ Backyard Composts, Landfills, Swamps, Forests and etc....
- Will revert to their original elements harmlessly, quickly, completely and are Beneficial to Plant Growth
- Have Scientifically Proven technology
- Are Recyclable as individual layers
- Retains the same properties as original plastics



5.0 mil PE Biodegrading in Lab Test

PROBLEM:

- Traditional Plastic Packaging is a Pollutant.
- Clogs up our waterways, creates enormous Ocean Islands of plastic, that threatens marine life and is a major contributor to the constant search for new landfills.
- It takes hundreds of years to degrade.



6-JAN-97
Day 1



21-FEB-97
Day 47



15-MAY-97
Day 130



13-AUG-97
Day 219



16-JUN-98
Day 537

Criteria for Degradation

Film	<u>6 Hrs. Sunlight</u>	<u>Oxygen Aeration</u>	<u>Heat</u>	<u>Pressure</u>	<u>Moisture</u>	<u>Microbial Contact</u>
TekPak						✓
OXO Bio	✓	✓	✓	✓	✓	✓
PLA		✓	✓	✓	✓	✓

The benefits and simplicity of TekPak Films are obvious

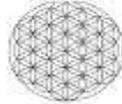
Bag Comparison

1,000 Bag Equivalent	Energy (MJ)	Fuel (Kg)	Solid Waste (Kg)	GHG Tons CO2	Water (Gal.)
Paper	2,622	23.2	33.9	0.08	1,004
PLA	2,070	41.5	19.2	0.18	1,017
BIO Poly	763	14.9	7.0	0.04	58

TekPak Solutions Materials Have Been Tested

CONFIDENTIAL - TekPak Solutions

Tested - 48 ga. BOPET



BOPET Research Laboratory

Update

2111 Menaul NE, Suite A
Albuquerque, NM 87107
T 505.500.9994
M 505.500.6816
thomas.roth@bopetresearchlab.com

To: TEKPAK

Date: February 1, 2017

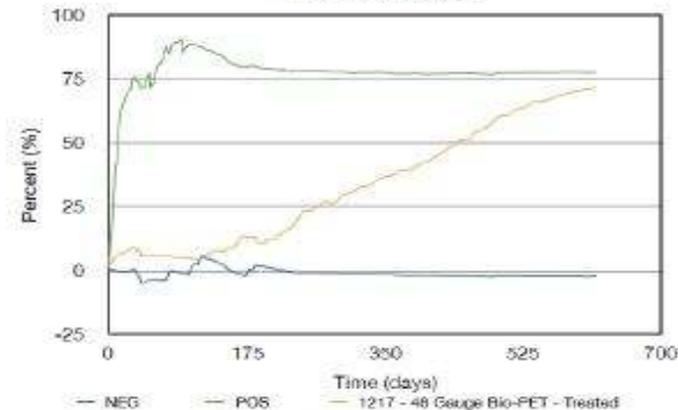
From: Thomas Roth

Number of pages including cover: 2

Regarding: ASTM D6511 Update for TEKPAK Samples (517 Days)

	Inculm	Negative	Positive	1217 - 48 Gauge Bio-PET - Treated
Cumulative Gas Volume (mL)	4437.6	4138.4	12024.8	24192.7
Percent CH ₄ (%)	50.8	54.0	44.3	31.6
Volume CH ₄ (mL)	2521.6	2233.2	5321.3	12479.3
Mass CH ₄ (g)	1.80	1.60	3.60	8.91
Percent CO ₂ (%)	35.5	36.6	40.6	33.6
Volume CO ₂ (mL)	1576.3	1513.3	4887.3	8126.9
Mass CO ₂ (g)	3.10	2.97	9.60	15.96
Sample Mass (g)	10	10	10	20.0
Theoretical Sample Mass (g)	0.0	9.6	4.2	12.4
Biodegraded Mass (g)	2.80	2.01	5.47	11.04
Percent Biodegraded (%)		-2.2	77.6	71.4
* Adjusted Percent Biodegraded (%)		-2.8	100.0	92.1

Biodegradation



Omnidegradable® Is Your New Packaging Solution!

For more Information Please Contact or Visit us @

www.tekpaksolutions.com

Phone. (416) 505 3839 | info@tekpaksolutions.com

