

Eden Research Laboratory

To: Duane Buelow

Date: July 5, 2012

# Update

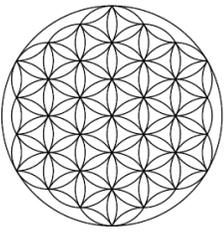
From: Thomas Poth

Number of pages including cover: 2

Regarding: Testing under ASTM D5511 of [REDACTED] EVA Foam #269-272 @ 195 days

2111 Menaul NE, Suite A  
 Albuquerque, NM 87107  
 T 505.508.3994  
 M 505.550.9316  
 thomas.poth@edenresearchlab.  
 com

	Incu- lum	Nega- tive	Posi- tive	418A - 269 - [REDACTED] EVA Foam Control	419A - 270 - [REDACTED] EVA Black Foam 1% EL- 30	420A - 271 - [REDACTED] EVA Black Foam 2% EL- 30	421A - 272 - [REDACTED] EVA Black Foam 4% EL- 30
Cumulative Gas Volume (mL)	7309.6	6828.4	16177.1	8321.4	8412.4	9570.8	14754.9
Percent CH <sub>4</sub> (%)	46.3	49.9	45.2	41.0	44.3	45.8	51.3
Volume CH <sub>4</sub> (mL)	3381.1	3404.3	7317.2	3414.0	3727.2	4380.2	7570.3
Mass CH <sub>4</sub> (g)	2.42	2.43	5.23	2.44	2.66	3.13	5.41
Percent CO <sub>2</sub> (%)	39.4	37.6	40.5	38.3	37.6	39.3	37.4
Volume CO <sub>2</sub> (mL)	2883.4	2564.7	6544.3	3189.0	3165.6	3758.8	5522.7
Mass CO <sub>2</sub> (g)	5.66	5.04	12.85	6.26	6.22	7.38	10.85
Sample Mass (g)	1,000	10	10	10.0	10.0	10	10
Theoretical Sample Mass (g)	0.0	8.6	4.4	8.2	8.2	8.2	8.2
Biodegraded Mass (g)	3.36	3.20	7.43	3.54	3.69	4.36	7.01
Percent Biodegraded (%)		-1.8	92.1	2.2	4.1	12.3	44.8
* Adjusted Percent Biodegraded (%)		-2.0	100.0	2.4	4.5	13.3	48.6

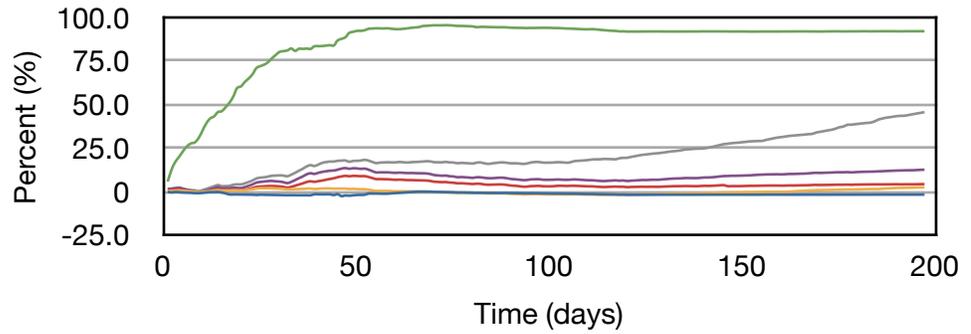


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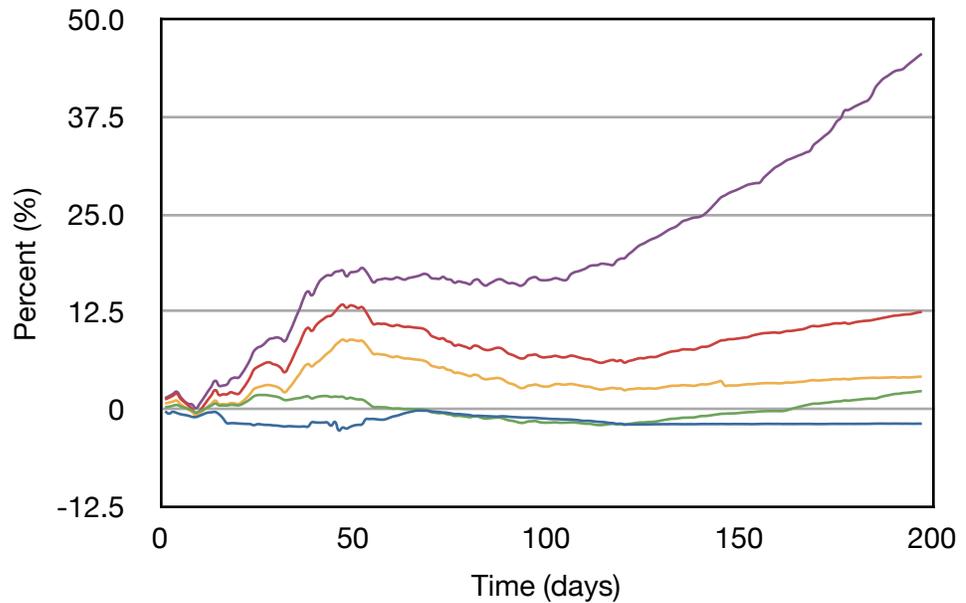
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## Biodegradation



- NEG
- POS
- 418-269 - EVA Foam Control
- 419-270 - EVA Black Foam 1% EL-30
- 420-271 - EVA Black Foam 2% EL-30
- 421-272 - EVA Black Foam 4% EL-30

## Biodegradation



- NEG
- 418-269 - EVA Foam Control
- 419-270 - EVA Black Foam 1% EL-30
- 420-271 - EVA Black Foam 2% EL-30
- 421-272 - EVA Black Foam 4% EL-30

\* Outside of the ASTM D5511 method and on the assumption that the positive control (Cellulose) will fully biodegrade, all value have been proportionally adjusted.