

Eden Research Laboratory

To: EcoLogic

Date: January 14, 2015

Update

From: Thomas Poth

Number of pages including cover: 2

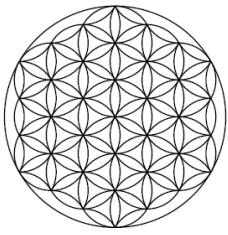
Regarding: ASTM D5511 update for EcoLogic PVC Samples - 142 days

	Inculum	Negative	Positive	518 - PVC Film (household stretch film) - Control	519 - PVC film (household stretch film) - EX112 @1%
Cumulative Gas Volume (mL)	2657.6	3320.9	9902.4	7311.1	13548.8
Percent CH ₄ (%)	47.8	50.4	38.5	43.0	46.5
Volume CH ₄ (mL)	1271.5	1672.5	3815.0	3143.0	6302.9
Mass CH ₄ (g)	0.91	1.19	2.72	2.25	4.50
Percent CO ₂ (%)	38.9	37.1	43.0	41.5	40.1
Volume CO ₂ (mL)	1033.6	1232.4	4258.1	3035.5	5427.1
Mass CO ₂ (g)	2.03	2.42	8.36	5.96	10.66
Sample Mass (g)	1,000	10	10	20.0	20.0
Theoretical Sample Mass (g)	0.0	8.6	4.2	7.7	8.0
Biodegraded Mass (g)	1.23	1.56	4.32	3.31	6.28
Percent Bio-degraded (%)		3.7	73.2	27.0	63.1
* Adjusted Percent Bio-degraded (%)		5.1	100.0	36.9	86.2

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

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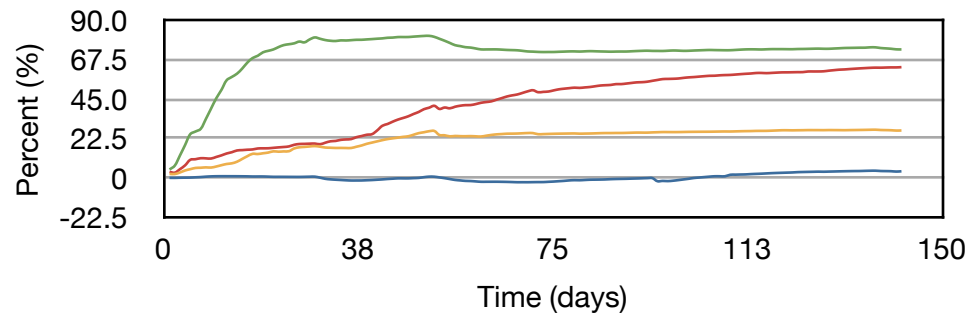
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Biodegradation



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