



Eden Research Laboratory

To: Biosphere

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Regarding: ASTM D5511 Biosphere Study update (1575 days)

Update

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	Inoculum	Negative	Positive	APEX PE SHRINK FILM CONTROL	APEX PE SHRINK FILM W/ BIOS-PHERE
Cumulative Gas Volume (mL)	4797.0	4298.8	13150.8	4075.1	35264.7
Percent CH ₄ (%)	51.1	50.5	43.5	50.1	54.6
Volume CH ₄ (mL)	2450.4	2170.5	5722.6	2040.0	19271.9
Mass CH ₄ (g)	1.75	1.55	4.09	1.46	13.77
Percent CO ₂ (%)	36.5	36.6	41.2	35.6	35.1
Volume CO ₂ (mL)	1752.7	1573.7	5424.4	1449.1	12361.6
Mass CO ₂ (g)	3.44	3.09	10.66	2.85	24.28
Sample Mass (g)	10	10	10	20.0	20.0
Theoretical Sample Mass (g)	0.0	8.6	4.2	17.1	17.1
Biodegraded Mass (g)	2.25	2.01	5.97	1.87	16.95
Percent Biodegraded (%)		-2.9	88.2	-2.2	85.7
* Adjusted Percent Biodegraded (%)		-3.3	100.0	-2.5	97.3

* The adjusted % biodegraded values are for informational purposes. It is not part of the method and will not be reported in the final report.

Biodegradation

