



Eden Research Laboratory

To: Nassimi LLC

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Regarding: ASTM D5511 Samples (722 days)

Update

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	Inoculum	Negative	Positive	Conventional Control PVC (version A)	Hyphyn Biodegradable PVC (version B)
Cumulative Gas Volume (mL)	2252.0	2116.2	10238.7	14013.0	18492.3
Percent CH ₄ (%)	46.8	42.0	35.5	52.6	53.5
Volume CH ₄ (mL)	1053.7	889.6	3634.4	7365.6	9901.2
Mass CH ₄ (g)	0.75	0.64	2.60	5.26	7.07
Percent CO ₂ (%)	38.9	38.5	44.9	36.6	36.0
Volume CO ₂ (mL)	876.9	814.3	4598.0	5132.5	6662.0
Mass CO ₂ (g)	1.72	1.60	9.03	10.08	13.09
Sample Mass (g)	10	10	10	20.0	15.0
Theoretical Sample Mass (g)	0.0	8.6	4.2	11.6	8.7
Biodegraded Mass (g)	1.03	0.91	4.41	6.70	8.87
Percent Biodegraded (%)		-1.4	80.0	48.8	90.1

Biodegradation

