

Eden Research Laboratory

To: EcoLogic

Date: August 15, 2019

Update

From: Thomas Poth

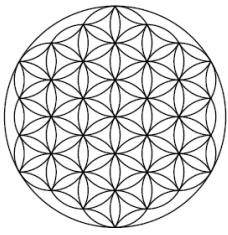
Number of pages including cover: 2

Regarding: ASTM D 5511-18 update for Ecologic YARN SAMPLES - 170 days

2412 Princeton NE, Suite E
Albuquerque, NM 87107
T 505.508.3994
M 505.550.9316
thomas.poth@edenresearchlab.com

	Inculum	Negative	Positive	611: PET Yarn No Dyed Control - White	612: PET Yarn no dyed with 2% Eco-On e - White	613: PET Yarn Blue Dyed Control - Blue	614: PET Red Yarn Dyed with 2% Eco-On e - Red
Cumulative Gas Volume (mL)	1477.7	1417.5	9651.0	1523.9	4554.8	1619.6	5233.5
Percent CH ₄ (%)	43.5	40.8	40.8	41.8	45.5	44.0	41.2
Volume CH ₄ (mL)	642.1	578.2	3936.3	636.7	2071.1	713.3	2156.8
Mass CH ₄ (g)	0.46	0.41	2.81	0.45	1.48	0.51	1.54
Percent CO ₂ (%)	40.1	39.5	41.9	39.0	39.5	39.8	40.3
Volume CO ₂ (mL)	592.9	560.0	4042.5	594.9	1797.0	645.1	2107.0
Mass CO ₂ (g)	1.16	1.10	7.94	1.17	3.53	1.27	4.14
Sample Mass (g)	10	10	10	8.5	8.8	9	10
Theoretical Sample Mass (g)	0.0	8.6	4.2	5.3	5.4	5.5	5.9
Biodegraded Mass (g)	0.66	0.61	4.27	0.66	2.07	0.73	2.28
Percent Biodegraded (%)		-0.6	85.6	-0.0	25.9	1.2	27.6
* Adjusted Percent Biodegraded (%)		-0.7	100.0	-0.0	30.2	1.4	32.2

* 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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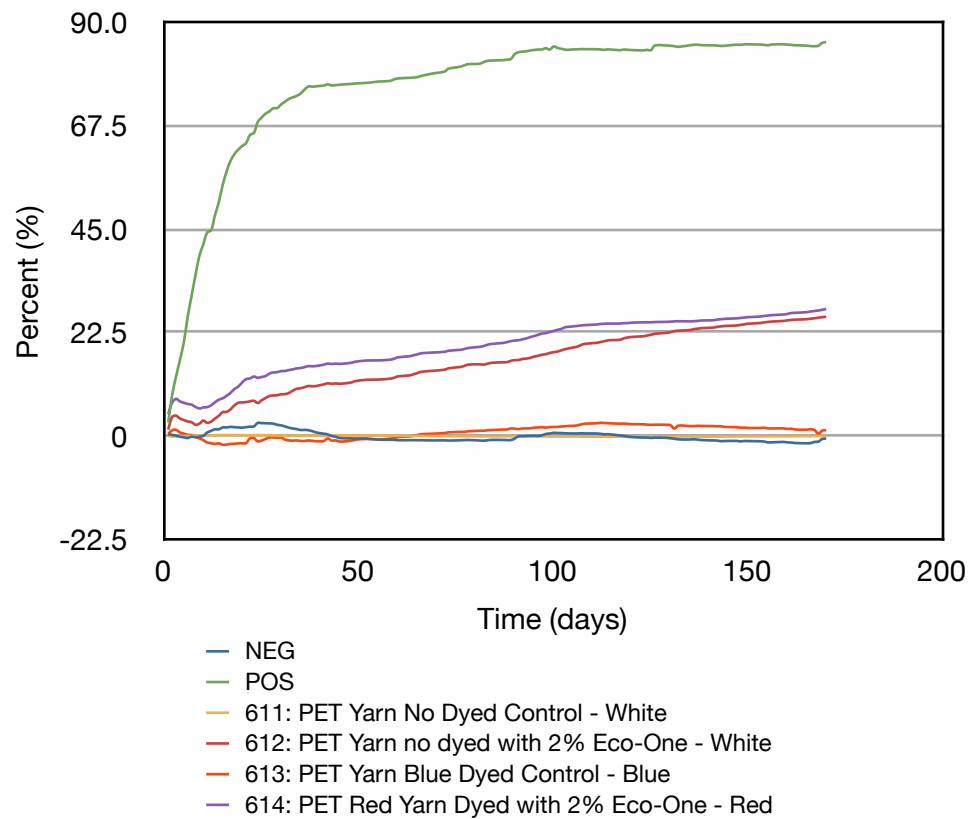
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Biodegradation



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