

Eden Research Laboratory

Up-
date

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To: P.P.H.U. Adrianno Damianii

Date: Apr 19, 2021

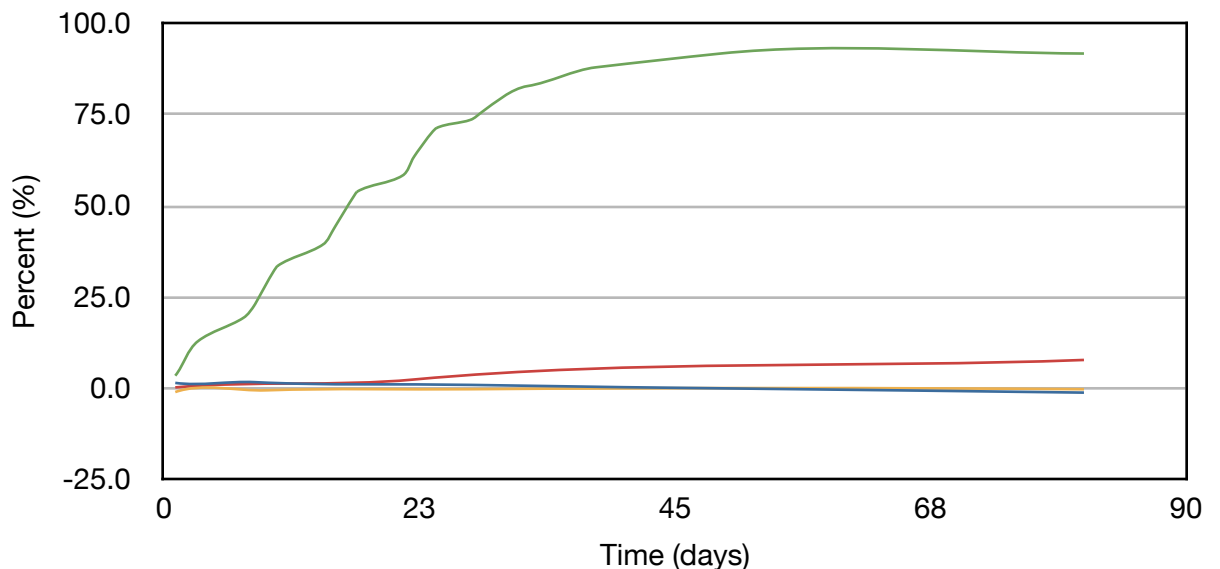
From: Thomas Poth

Number of pages including cover: 2

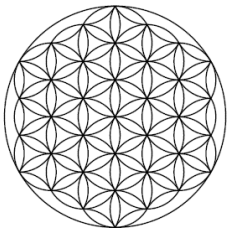
Regarding: ASTM D5511-18 (ISO 15985 Equivalent) study of Sample (81 days)

	Inculum	Negative	Positive	Medical face masks without any additives	Biomasks - Medical face masks with biodegradation helping additive
Cumulative Gas Volume (mL)	991.8	911.6	9856.2	1025.7	4005.7
Percent CH ₄ (%)	33.7	23.2	37.4	28.6	38.2
Volume CH ₄ (mL)	333.9	211.9	3684.5	293.4	1528.7
Mass CH ₄ (g)	0.24	0.15	2.63	0.21	1.09
Percent CO ₂ (%)	43.8	42.5	43.7	42.3	42.4
Volume CO ₂ (mL)	434.5	387.6	4308.3	433.8	1696.4
Mass CO ₂ (g)	0.85	0.76	8.46	0.85	3.33
Sample Mass (g)	10	10	10	20.0	20.0
Theoretical Sample Mass (g)	0.0	8.6	4.2	16.7	16.7
Biodegraded Mass (g)	0.41	0.32	4.28	0.39	1.73
Percent Biodegraded (%)		-1.1	91.7	-0.1	7.9

Biodegradation



— NEG — POS
— Medical face masks without any additives — Biomasks - Medical face masks with biodegradation helping additive



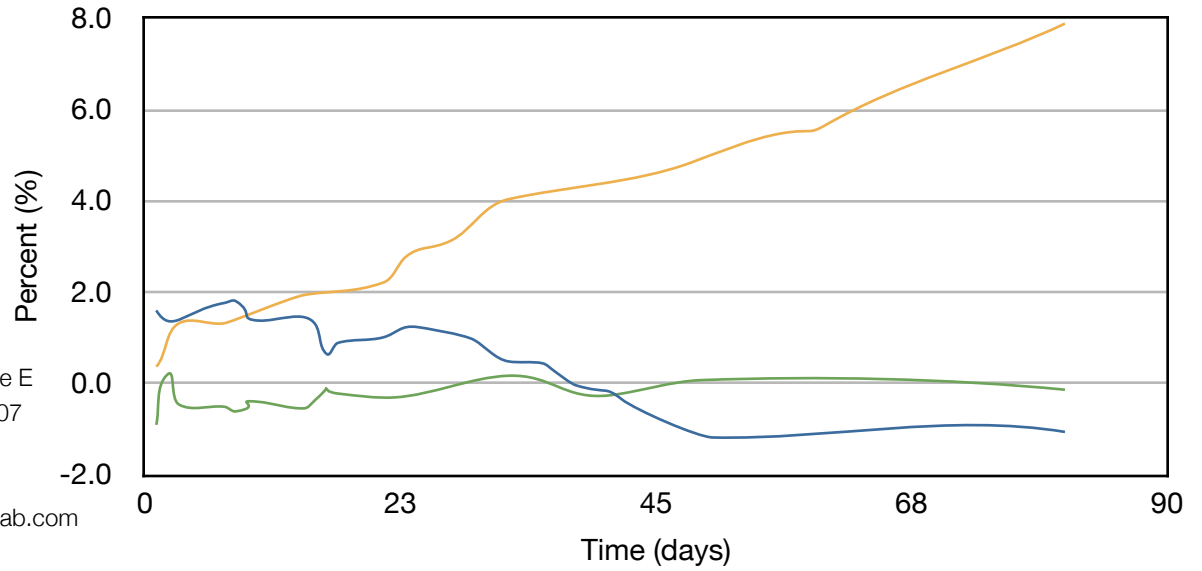
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Biodegradation



- NEG
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