Outline of Standard for Biodegradable Plastic

standard	No.	aerobic/ anaerobic	medium	inoculam	mesure object	measurement method	incubation temp.	reactor size	reactor amount	air flow rate	test period	others	
ISO	14851	aerobic	water	sewage treatment plant mixed sludge	biodegradation	O2 consumption	20-25℃±1℃		total 5	50～100 ml/min	reach plateau or 6 months	dark place	
ASTM	D5271	aerobic	water										
JIS	K6950	aerobic	water	sewage treatment plant mixed sludge	biodegradation	O2 consumption BOD method	20-25℃±1℃	500～600mL	total 6	50～100 ml/min	reach plateau or 6 months	dark place	
ISO	14852	aerobic	water	sewage treatment plant mixed sludge	biodegradation	CO2 generation titration method etc.	20-25℃±1℃		total 5	50～100 ml/min		dark place	
ASTM	D5209	aerobic	water	activated sewage sludge	biodegradation disintegration	CO2 generation titration method etc.	23℃±1℃				until reach plateau		
JIS	K6951	aerobic	water	sewage treatment plant mixed sludge	biodegradation		20-25℃±1℃		total 5	50～100 ml/min	reach plateau or 6 months	dark place	
ISO	14855-1	aerobic	compost	controled compost	biodegradation disintegration	CO2 generation titration method etc.	58℃±2℃	3L	Total 5		45～180days		
ASTM	D5338	aerobic	compost	controled compost	biodegradation disintegration	CO2 generation titration method etc.	35→58→50→35℃(±2℃)	2～5L	each 3 total 12		45days		
EN	14046	aerobic	compost		biodegradation disintegration								
JIS	K6953-1	aerobic	compost	controled compost	biodegradation disintegration	CO2 generation titration method etc.	58℃±2℃	2～5L	each 3 total 9	enough high flow	45～180days		
ISO	14855-2	aerobic	compost	controled compost	biodegradation	CO2 generation gravimetric method	58℃±2℃	500ml	each 2 total 6	10～30 ml/min	45～180days		MODA-9,MODA-6,MODA-4
JIS	K6953-2	aerobic	compost	controled compost	biodegradation	CO2 generation gravimetric method	58℃±2℃	500ml	each 2 total 6	10～30 ml/min	45～180days		MODA-9,MODA-6,MODA-4
ISO	17556	aerobic	soil	adjusted soil	biodegradation		20-25℃±2℃	200g～300g	each 2 total 6	voluntary	reach plateau ～6 months		MODA-9,MODA-6,MODA-4
ASTM	D5988	aerobic	soil										
JIS	K6955	aerobic	soil	adjusted soil	biodegradation		20-25℃±1℃	200g～300g	each 2 total 6	voluntary	reach plateau or 6 months		MODA-9,MODA-6,MODA-4
ISO	14853	anaerobic	water				35℃±2℃	0.1-1L		-			
ISO	15985	anaerobic	sluge	pretreated domestic garbage	biodegradation disintegration	Bio gass (CO2 CH4) volume	52℃±2℃	＞750mL	each 3 total 9	-	15days～ reach plateau	dark place	
ASTM	D5526	anaerobic	sluge							-			
JIS	K6960	anaerobic	sluge	pretreated domestic garbage	biodegradation disintegration	Bio gass (CO2 CH4) volume	52℃±2℃	＞750mL	each 3 total 9	-	15days～ reach plateau	dark place	
ISO	13975	anaerobic	slurry		biodegradation	Bio gass (CO2 CH4) volume				-			MODA-B

MODA-9	aerobic	compost/soil	-	biodegradation	CO2 generation gravimetric method	room temp. ～70℃	500ml	9	0～100 ml/min		
MODA-6	aerobic	compost/soil	-	biodegradation	CO2 generation gravimetric method	room temp. ～70℃	500ml	6	0～100 ml/min	-	
MODA-4	aerobic	compost/soil	-	biodegradation	CO2 generation gravimetric method	room temp. ～70℃	500ml	4	0～100 ml/min	-	
MODA-B	anaerobic	slurry/sluge	-	biodegradation	Bio gass (CO2 CH4) volume	room temp. ～70℃	1.4L	6		-	