

Test Report

號碼(No.): ETR22B04336

日期(Date): 05-Dec-2022

頁數(Page): 1 of 19

TAMURA CORPORATION

16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant

as):

送樣廠商(Sample Submitted By) : TAMURA CORPORATION

樣品名稱(Sample Name) : SOLDER PASTE 樣品型號(Style/Item No.) : LF-204-617S

收件日(Sample Receiving Date)

: 28-Nov-2022

測試期間(Testing Period)

: 28-Nov-2022 to 05-Dec-2022

測試需求(Test Requested)

(1) 依據客戶指定、參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試 鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)

(2) 其他測試項目請見下一頁。 (Please refer to next pages for the other item(s).) 請參閱下一頁 (Please refer to following pages.)

測試結果(Test Results)

結 論(Conclusion)

(1) 根據客戶所提供的樣品,其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP,

BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863

amending Annex II to Directive 2011/65/EU.)

Troy Chang / Department Malager Signed for and on behalf of Alwah SGS TAIWAN LTD. Chemical Laboratory - Taipei



PIN CODE: 9248CD91



Test Report

號碼(No.): ETR22B04336 日期(Date): 05-Dec-2022 頁數(Page): 2 of 19

TAMURA CORPORATION 16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

測試部位敘述 (Test Part Description)

No.1 : 灰色膏狀 (GRAY PASTE)

測試結果 (Test Results)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-	參考IEC 62321-5: 2013,以感應耦合電漿	mg/kg	2	n.d.	100
43-9)	發射光譜儀分析。(With reference to IEC				
	62321-5: 2013, analysis was performed				
	by ICP-OES.)				
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)	參考IEC 62321-5: 2013,以感應耦合電漿	mg/kg	2	n.d.	1000
	發射光譜儀分析。(With reference to IEC				
	62321-5: 2013, analysis was performed				
	by ICP-OES.)				
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-	參考IEC 62321-4: 2013 + AMD1: 2017 · 以	mg/kg	2	n.d.	1000
97-6)	感應耦合電漿發射光譜儀分析。(With				
	reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)				
六價鉻 Cr(VI) (Hexavalent Chromium	參考IEC 62321-7-2: 2017 · 以紫外光-可見	mg/kg	8	n.d.	1000
Cr(VI)) (CAS No.: 18540-29-9)	光分光光度計分析。(With reference to				
	IEC 62321-7-2: 2017, analysis was				
\(\text{\tint{\text{\tint{\text{\tin}\exiting{\text{\tin}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\tint{\text{\texi}\text{\text{\texi}\text{\tex{\texi}\tint{\text{\texi}\text{\texitit}\\ \text{\texi{\tex	performed by UV-VIS.)	/1	-		
一溴聯苯 (Monobromobiphenyl)		mg/kg	5	n.d.	-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)	参考IEC 62321-6: 2015·以氣相層析儀/質	mg/kg	5	n.d.	-
五溴聯苯 (Pentabromobiphenyl)	譜儀分析。(With reference to IEC 62321-	mg/kg	5	n.d.	-
六溴聯苯 (Hexabromobiphenyl)	6: 2015, analysis was performed by	mg/kg	5	n.d.	-
七溴聯苯 (Heptabromobiphenyl)	GC/MS.)	mg/kg	5	n.d.	-
八溴聯苯 (Octabromobiphenyl)	,	mg/kg	5	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	1000



Test Report

號碼(No.): ETR22B04336 日期(Date): 05-Dec-2022 頁數(Page): 3 of 19

TAMURA CORPORATION 16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

(Method) (Unit) (Result) (Result) (Mint) (Result) (No.1	測試項目	測試方法	單位	MDL	結果	限值
決勝苯醚 (Monobromodiphenyl ether)	(Test Items)	(Method)	(Unit)		(Result)	(Limit)
演称苯酸 (Dibromodiphenyl ether) (Disparse (Tribromodiphenyl ether) (Disparse (Tribromodiphenyl ether) (Disparse (Pentabromodiphenyl ether) (Disparse (Pentabromodiphe					No.1	
三溴聯苯醚 (Tribromodiphenyl ether) 四溴聯苯醛 (Tetrabromodiphenyl ether) 表別			mg/kg	5	n.d.	-
図週期茶醚 (Tetrabromodiphenyl ether)			mg/kg	5	n.d.	-
多考IEC 62321-6: 2015・以氣相層析傷/質			mg/kg		n.d.	-
請儀分析。(With reference to IEC 62321-		& 孝IEC 62221 6:2015 . 以复相属析缮/每	mg/kg	5	n.d.	-
大溪神本殿 (Hexaformodiphenyl ether) 日本語			mg/kg	5	n.d.	-
C/MS. Mg/kg 5 n.d. -	1 3	· ·	mg/kg	5	n.d.	-
八泉脚苯醚 (Nonabromodiphenyl ether)		l ' '	mg/kg		n.d.	-
十溴聯苯酸 (Decabromodiphenyl ether) 一名	. ,	GC/1413.)	mg/kg	5	n.d.	-
多演聯苯離總和 (Sum of PBDEs)	1 3		mg/kg		n.d.	-
郷苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) (CAS No.: 85-68-7) mg/kg 50 n.d. 1000 郷苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2) mg/kg 50 n.d. 1000 郷苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7) mg/kg 50 n.d. 1000 郷苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5) mg/kg 50 n.d. 1000 郷苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1) mg/kg 50 n.d. - 郷苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0) mg/kg 50 n.d. - 郷苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0) mg/kg 50 n.d. - 郷苯二甲酸二正己酯 (DNHP) (Di-n-hexyl mg/kg 50 n.d. - 郷苯二甲酸二正己酯 (DNHP) (Di-n-hexyl mg/kg 50 n.d. -			mg/kg	5	n.d.	-
phthalate (BBP)) (CAS No.: 85-68-7) ### ### ### ### ### ### ### ### ###	多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	1000
郷苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2) mg/kg 50 n.d. 1000 郷苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7) mg/kg 50 n.d. 1000 郷苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5) 参考IEC 62321-8: 2017 · 以氣相層析儀/質 iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	, , , ,		mg/kg	50	n.d.	1000
phthalate (DBP)) (CAS No.: 84-74-2) 鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7) 鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5) 鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1) 鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0) 鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0) 鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl phthalate (DNOP)) (CAS No.: 117-84-0) 邓本二甲酸二正己酯 (DNHP) (Di-n-hexyl phthalate (DNOP)) (CAS No.: 117-84-0)	phthalate (BBP)) (CAS No.: 85-68-7)					
# 第本二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7) # 第本二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5) # 第本二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1) # 第本二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0) # 第本二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0) # 第本二甲酸二正己酯 (DNHP) (Di-n-hexyl # 1000	鄰苯二甲酸二丁酯 (DBP) (Dibutyl		mg/kg	50	n.d.	1000
(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7) 鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5) 鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1) 鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0) 鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0) 鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl の	phthalate (DBP)) (CAS No.: 84-74-2)					
No.: 117-81-7)	鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-		mg/kg	50	n.d.	1000
郷苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)参考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)mg/kg50n.d.1000郷苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)8: 2017, analysis was performed by GC/MS.)mg/kg50n.d郷苯二甲酸二正辛酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)mg/kg50n.d郷苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)mg/kg50n.d郷苯二甲酸二正己酯 (DNHP) (Di-n-hexylmg/kg50n.d	(2-ethylhexyl) phthalate (DEHP)) (CAS					
phthalate (DIBP)) (CAS No.: 84-69-5) 鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1) 鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0) 鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0) 鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl phthalate (DNOP)) (CAS No.: 117-84-0)	No.: 117-81-7)					
#本二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1) #本二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0) #本二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0) #本二甲酸二正己酯 (DNHP) (Di-n-hexyl phthalate (DNHP) (鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl	4 +/150 coood o cod 7 N / 15 15 15 15 15 15 15 15	mg/kg	50	n.d.	1000
郷苯二甲酸二異癸酯 (DIDP) (CAS No.: 26761-40- 0, 68515-49-1) 8: 2017, analysis was performed by GC/MS.) mg/kg 50 n.d. - 郷苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12- 0, 68515-48-0) mg/kg 50 n.d. - 郷苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0) mg/kg 50 n.d. - 郷苯二甲酸二正己酯 (DNHP) (Di-n-hexyl mg/kg 50 n.d. -	phthalate (DIBP)) (CAS No.: 84-69-5)	I				
phthalate (DIDP)) (CAS No.: 26761-40- 0, 68515-49-1) 鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12- 0, 68515-48-0) 鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0) 鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl	鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl	l '	mg/kg	50	n.d.	-
第本二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)	phthalate (DIDP)) (CAS No.: 26761-40-	'				
phthalate (DINP)) (CAS No.: 28553-12- 0, 68515-48-0) 鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0) 鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl	0, 68515-49-1)	GC/M3.)				
phthalate (DINP)) (CAS No.: 28553-12- 0, 68515-48-0) 鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0) 鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl	鄰苯二甲酸二異壬酯 (DINP) (Diisononyl		mg/kg	50	n.d.	-
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)mg/kg50n.d鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexylmg/kg50n.d	•		3. 3			
phthalate (DNOP)) (CAS No.: 117-84-0) 鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl	0, 68515-48-0)					
phthalate (DNOP)) (CAS No.: 117-84-0) 鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl	鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octvl		mg/kg	50	n.d.	-
鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl mg/kg 50 n.d			, J			
	l'		mg/kg	50	n.d.	-
	phthalate (DNHP)) (CAS No.: 84-75-3)		ر بر	-		



Test Report

號碼(No.): ETR22B04336 日期(Date): 05-Dec-2022

頁數(Page): 4 of 19

TAMURA CORPORATION

16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
鄰苯二甲酸雙(2-甲氧基乙基)酯 (DMEP) (Bis(2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8)		mg/kg	50	n.d.	-
鄰苯二甲酸二 (C6-8支鏈)烷基酯·富C7 (DIHP) (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)) (CAS No.: 71888-89-6)	參考IEC 62321-8: 2017·以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
鄰苯二甲酸二(C7-11支鏈與直鏈)烷基酯 (DHNUP) (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)) (CAS No.: 68515-42-4)	3,3,	mg/kg	50	n.d.	-
六溴環十二烷及所有主要被辨別出的異構物(HBCDD) (α - HBCDD, β - HBCDD, γ - HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	參考IEC 62321: 2008·以氣相層析儀/質譜儀分析。(With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)		mg/kg	50	n.d.	-
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537- 15-1)	參考BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582:	mg/kg	50	n.d.	-
溴 (Br) (Bromine (Br)) (CAS No.: 10097- 32-2)	2016, analysis was performed by IC.)	mg/kg	50	3410	-
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	-
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	參考CEN/TS 15968: 2010·以液相層析串 聯質譜儀分析。(With reference to	mg/kg	0.01	n.d.	-
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)	CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-



Test Report

號碼(No.): ETR22B04336 日期(Date): 05-Dec-2022 頁數(Page): 5 of 19

TAMURA CORPORATION 16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	參考US EPA 3550C: 2007·以液相層析串 聯質譜儀分析。(With reference to US	mg/kg	10	n.d.	-
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)	EPA 3550C: 2007, analysis was performed by LC/MS/MS.)	mg/kg	10	n.d.	-
多氯聯苯 (PCBs) (Polychlorinated biphenyls (PCBs))	参考US EPA 3550C: 2007·以氣相層析儀/	mg/kg	0.5	n.d.	-
多氯奈 (PCNs) (Polychlorinated naphthalene (PCNs))	質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by	mg/kg	5	n.d.	-
多氯三聯苯 (PCTs) (Polychlorinated terphenyls (PCTs))	GC/MS.)	mg/kg	0.5	n.d.	-
短鏈氯化石蠟(C10-C13) (SCCP) (Short Chain Chlorinated Paraffins(C10-C13) (SCCP)) (CAS No.: 85535-84-8)	參考ISO 18219-1: 2021·以氣相層析儀/ 質譜儀分析。(With reference to ISO 18219-1: 2021, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
四溴雙酚-A (TBBP-A) (Tetrabromobisphenol A (TBBP-A)) (CAS No.: 79-94-7)	參考RSTS-E&E-121·以液相層析儀/質譜 儀分析。(With reference to RSTS-E&E- 121, analysis was performed by LC/MS.)	mg/kg	10	n.d.	-
三苯基錫 (TPT) (Triphenyl tin (TPT))	參考ISO 17353: 2004 · 以氣相層析儀/火	mg/kg	0.03	n.d.	-
三丁基錫 (TBT) (Tributyl tin (TBT))	焰光度偵測器分析。(With reference to	mg/kg	0.03	n.d.	-
二辛基錫 (DOT) (Dioctyl tin (DOT))	ISO 17353: 2004, analysis was	mg/kg	0.03	n.d.	-
二丁基錫 (DBT) (Dibutyl tin (DBT))	performed by GC/FPD.)	mg/kg	0.03	n.d.	-
氧化雙三丁基錫 (TBTO) (Bis(tributyltin) oxide (TBTO)) (CAS No.: 56-35-9)	由三丁基錫測試結果計算得之。 (Calculated from the result of Tributyl Tin (TBT).)	mg/kg	0.03▲	n.d.	-
聚氯乙烯 (Polyvinyl chloride) (PVC)	參考ASTM E1252: 2021·以傅立葉轉換紅外線光譜儀及焰色法分析。(With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test.)	**	-	Negative	-



Test Report

號碼(No.): ETR22B04336 日期(Date): 05-Dec-2022

頁數(Page): 6 of 19

TAMURA CORPORATION

16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
雙酚A (Bisphenol A) (CAS No.: 80-05-7)	參考RSTS-CHEM-239-1 · 以液相層析串聯質譜儀分析。(With reference to RSTS-CHEM-239-1, analysis was performed by LC/MS/MS.)	mg/kg	1	n.d.	-
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-36-0)	參考US EPA 3052: 1996,以感應耦合電漿發射光譜儀分析。(With reference to US	mg/kg	2	n.d.	-
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	-

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 4. "-" = Not Regulated (無規格值)
- 5. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
- 7. 全氟辛烷磺酸及其鹽類包含等物質 (PFOS and its salts including):

CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.

8. 全氟辛酸及其鹽類包含等物質 (PFOA and its salts including):

CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.

9. ▲: MDL是針對元素/測試化合物之評估。(The MDL was evaluated for element / tested substance.)

換算公式 (Conversion Formula): AX = A × F

AX	Α	F
氧化雙三丁基錫 (Bis(tributyltin)oxide) (TBTO)	三丁基錫 (Tributyl Tin) (TBT)	1.0276

參數換算表 (Parameter Conversion Table):

https://eecloud.sgs.com/Region TW/DocDownload.aspx?name=Others

10. 除非另有說明,參照ILAC-G8:09/2019,採用簡單二元(w=0)允收規則進行符合性判定;根據此規則,符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)



Test Report

號碼(No.): ETR22B04336 日期

日期(Date): 05-Dec-2022

頁數(Page): 7 of 19

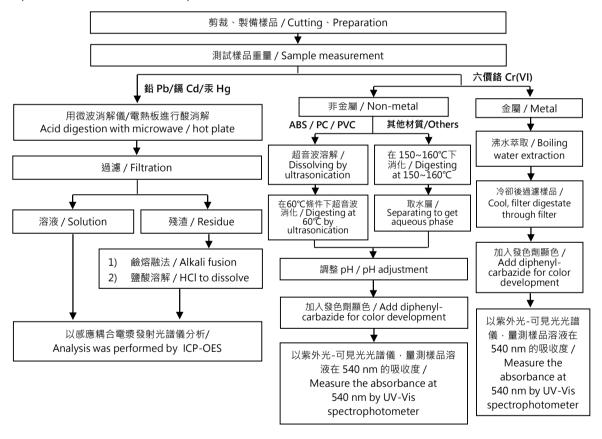
TAMURA CORPORATION

16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

重金屬流程圖 / Analytical flow chart of heavy metal

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)





Test Report

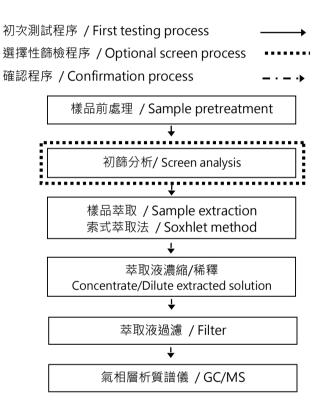
號碼(No.): ETR22B04336

日期(Date): 05-Dec-2022

頁數(Page): 8 of 19

TAMURA CORPORATION 16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs





測試報告 Test Report

號碼(No.): ETR22B04336

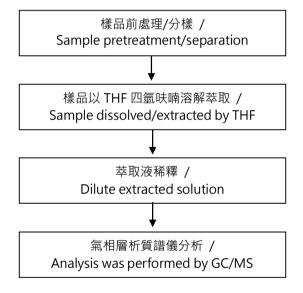
日期(Date): 05-Dec-2022

頁數(Page): 9 of 19

TAMURA CORPORATION 16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



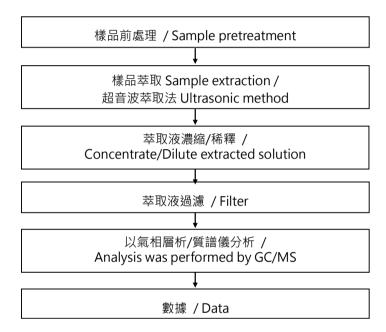


Test Report

號碼(No.): ETR22B04336 日期(Date): 05-Dec-2022

TAMURA CORPORATION 16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



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頁數(Page): 10 of 19



測試報告 Test Report

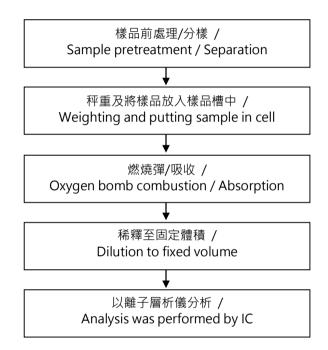
號碼(No.): ETR22B04336

日期(Date): 05-Dec-2022

頁數(Page): 11 of 19

TAMURA CORPORATION 16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

鹵素分析流程圖 / Analytical flow chart - Halogen





Test Report

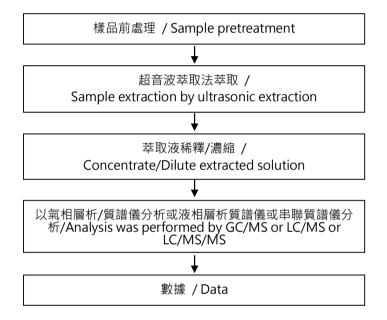
號碼(No.): ETR22B04336

日期(Date): 05-Dec-2022

頁數(Page): 12 of 19

TAMURA CORPORATION 16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)





Test Report

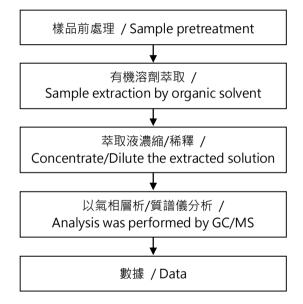
號碼(No.): ETR22B04336 日期(Date): 05-Dec-2022

TAMURA CORPORATION 16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

分析流程圖 / Analytical flow chart

【適用於:多氯聯苯、多氯奈、多氯三聯苯、滅蟻靈、氯化石蠟、DBBT】

*Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



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頁數(Page): 13 of 19



Test Report

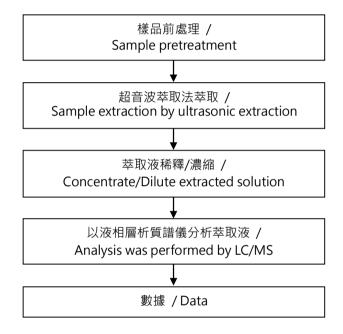
號碼(No.): ETR22B04336

日期(Date): 05-Dec-2022

頁數(Page): 14 of 19

TAMURA CORPORATION 16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

四溴雙酚-A 分析流程圖 / Analytical flow chart - TBBP-A





Test Report

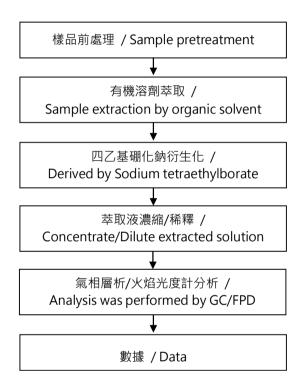
號碼(No.): ETR22B04336

日期(Date): 05-Dec-2022

頁數(Page): 15 of 19

TAMURA CORPORATION 16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

有機錫分析流程圖 / Analytical flow chart - Organic-Tin





Test Report

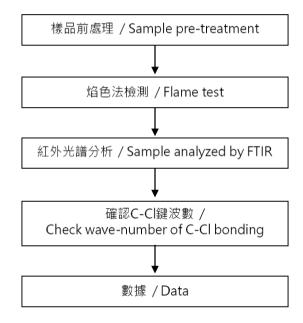
號碼(No.): ETR22B04336

日期(Date): 05-Dec-2022

頁數(Page): 16 of 19

TAMURA CORPORATION 16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC





Test Report

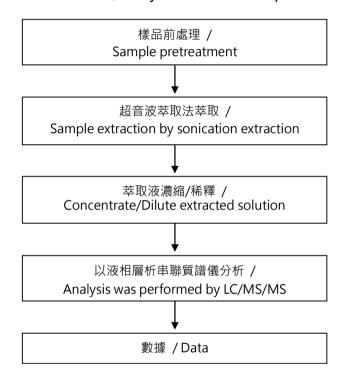
號碼(No.): ETR22B04336

日期(Date): 05-Dec-2022

頁數(Page): 17 of 19

TAMURA CORPORATION 16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

雙酚A分析流程圖 / Analytical flow chart - Bisphenol A





Test Report

號碼(No.): ETR22B04336

日期(Date): 05-Dec-2022

頁數(Page): 18 of 19

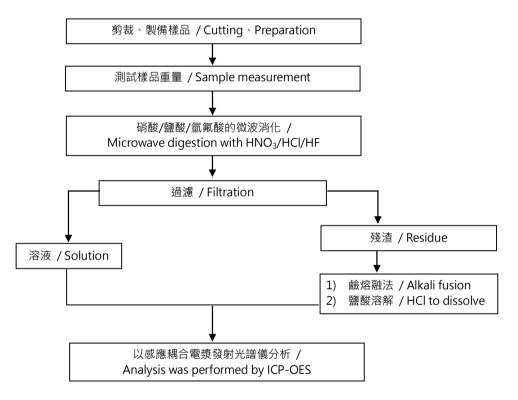
TAMURA CORPORATION 16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

元素(含重金屬)分析流程圖 / Analytical flow chart of elements (Heavy metal included)

根據以下的流程圖之條件,樣品已完全溶解。

These samples were dissolved totally by pre-conditioning method according to below flow chart.

【参考方法/Reference method: US EPA 3051A、US EPA 3052】



* US EPA 3051A 方法未添加氫氟酸 / US EPA 3051A method does not add HF.



Test Report

號碼(No.): ETR22B04336

日期(Date): 05-Dec-2022

頁數(Page): 19 of 19

TAMURA CORPORATION 16-2, SAYAMAGAHARA, IRUMA-SHI, SAITAMA-KEN, 358-8501, JAPAN

* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR22B04336



** 報告結尾 (End of Report) **