

Test Report

號碼(No.): ETR22100877 頁數(Page): 1 of 14 日期(Date): 18-Jan-2022

奕郝精密股份有限公司 (YI HAO PRECISION CO., LTD.)

南投市南崗工業區成功三路216號 (NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN)

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/on behalf of the applicant as):

送樣廠商(Sample Submitted By)

奕郝精密股份有限公司 (YI HAO PRECISION CO., LTD.)

樣品名稱(Sample Name)

RIGID PVC HOLOGRAPHY LABEL (雷射商標)

樣品型號(Style/Item No.)

HPFL50(S)(J), R2HPFL50(T), R3HPFL50(T), R4HPFL50(T), HHPFL50,

(R2)HVLS50(T)(75), (R3)HVLS50(T)(75), (R4)HVLS50(T)(75), HVLS50S,

HVLS50T#C6

收件日(Sample Receiving Date)

05-Jan-2022

測試期間(Testing Period)

05-Jan-2022 to 18-Jan-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)

論(Conclusion)

根據客戶所選擇的部位測試,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 selected part of 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.)







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南投市南崗工業區成功三路216號 (NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN)

測試部位敘述 (Test Part Description)

No.1 : 銀色商標及其上膠 (不含離型紙) (SILVER COLORED LABEL WITH ADHESIVE (EXCLUDING THE

RELEASE PAPER))

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·	mg/kg	2	n.d.	1000
97-6)	以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				
	performed by UV-VIS.)				
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)	· 寄名IEC 62321-6: 2015 · 以氣怕層析儀/貝· · 譜儀分析。(With reference to IEC 62321- 6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.	-
七溴聯苯 (Heptabromobiphenyl)		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

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南投市南崗工業區成功三路216號 (NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
一溴聯苯醚 (Monobromodiphenyl ether)		mg/kg	5	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)	************************************	mg/kg	5	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)	參考IEC 62321-6: 2015,以氣相層析儀/質譜儀分析。(With reference to IEC 62321-	mg/kg	5	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)	6: 2015, analysis was performed by	mg/kg	5	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)	GC/MS.)	mg/kg	5	n.d.	-
八溴聯苯醚 (Octabromodiphenyl ether)	GC/1V13.)	mg/kg	5	n.d.	-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	ı	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl		mg/kg	50	n.d.	1000
phthalate (BBP)) (CAS No.: 85-68-7)					
鄰苯二甲酸二丁酯 (DBP) (Dibutyl		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-		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	参考IEC 62321-8: 2017·以氣相層析儀/質	mg/kg	50	n.d.	1000
phthalate (DIBP)) (CAS No.: 84-69-5)	iii 儀分析。(With reference to IEC 62321-				
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl	8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1
phthalate (DIDP)) (CAS No.: 26761-40-					
0, 68515-49-1)					
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl		mg/kg	50	n.d.	1
phthalate (DINP)) (CAS No.: 28553-12-					
0, 68515-48-0)					
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl		mg/kg	50	n.d.	-
phthalate (DNOP)) (CAS No.: 117-84-0)					
鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl		mg/kg	50	n.d.	-
phthalate (DNHP)) (CAS No.: 84-75-3)					



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南投市南崗工業區成功三路216號 (NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
鄰苯二甲酸二正庚酯 (Di-n-heptyl phthalate) (CAS No.: 3648-21-3)	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.	-
鄰苯二甲酸雙(2-甲氧基乙基)酯 (DMEP) (Bis(2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8)		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.	-
溶出硒 (Soluble Selenium) (Se) (CAS No.: 7782-49-2)	參考ASTM F963-17 Clause 8.3.以感應耦合電漿發射光譜儀分析。(With reference to ASTM F963-17 Clause 8.3, analysis was performed by ICP-OES.)	mg/kg	5	n.d.	-
溶出銻 (Soluble Antimony) (Sb) (CAS No.: 7440-36-0)		mg/kg	5	n.d.	-
溶出鉛 (Soluble Lead) (Pb) (CAS No.: 7439-92-1)		mg/kg	5	n.d.	-
溶出汞 (Soluble Mercury) (Hg) (CAS No.: 7439-97-6)		mg/kg	5	n.d.	-
溶出鉻 (Soluble Chromium) (Cr) (CAS No.: 7440-47-3)		mg/kg	5	n.d.	-
溶出鎘 (Soluble Cadmium) (Cd) (CAS No.: 7440-43-9)		mg/kg	5	n.d.	-
溶出鋇 (Soluble Barium) (Ba) (CAS No.: 7440-39-3)		mg/kg	10	n.d.	-
溶出砷 (Soluble Arsenic) (As) (CAS No.: 7440-38-2)		mg/kg	2.5	n.d.	-



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南投市南崗工業區成功三路216號 (NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
全氟辛烷磺酸及其鹽類 (PFOS and its	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
salts) (CAS No.: 1763-23-1 and its salts)	聯質譜儀分析。(With reference to				
全氟辛酸及其鹽類 (PFOA and its salts)	CEN/TS 15968: 2010, analysis was	mg/kg	0.01	n.d.	-
(CAS No.: 335-67-1 and its salts)	performed by LC/MS/MS.)				
雙酚A (Bisphenol A) (CAS No.: 80-05-7)	參考RSTS-CHEM-239-1,以液相層析串聯	mg/kg	1	n.d.	-
	質譜儀分析。(With reference to RSTS-				
	CHEM-239-1, analysis was performed by				
	LC/MS/MS.)				
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)	参考CPSC-CH-E1002-08.3: 2012,以感應	mg/kg	2	n.d.	-
	耦合電漿發射光譜儀分析。(With				
	reference to CPSC-CH-E1002-08.3:				
	2012, analysis was performed by ICP-				
	OES.)				

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 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. 全氟辛烷磺酸及其鹽類包含 (PFOS and its salts including):

CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.

- 6. 全氟辛酸及其鹽類包含 (PFOA and its salts including):
 - CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
- 7. 符合性結果之判定係以測試結果與限值做比較。(The statement of compliance conformity is based on comparison of testing results and limits.)



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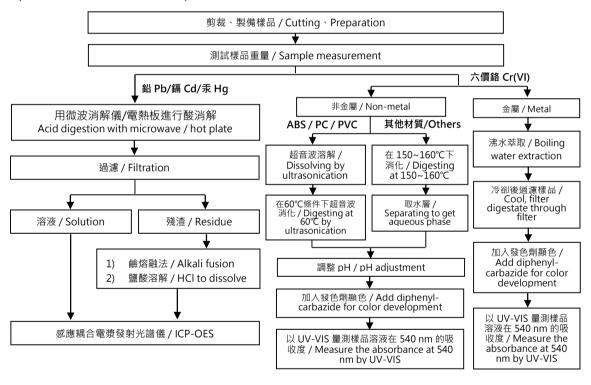
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南投市南崗工業區成功三路216號 (NO. 216, CHENGKUNG 3RD RD., NANKANG IND PARK, NANTOU 540, TAIWAN)

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)





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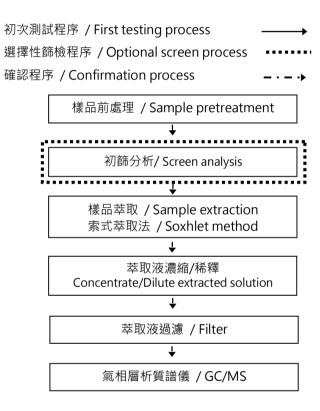
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs





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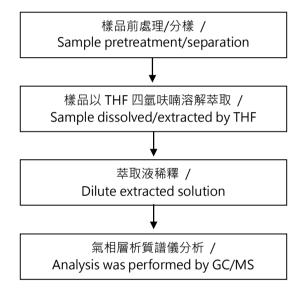
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】





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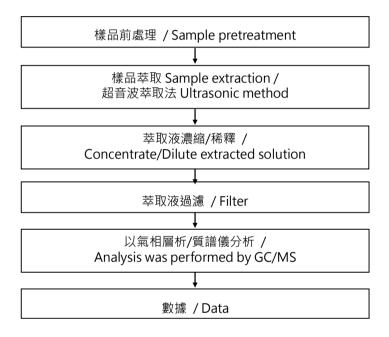
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD





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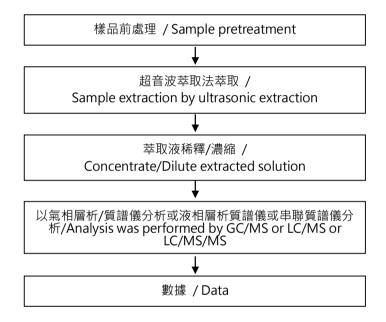
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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)





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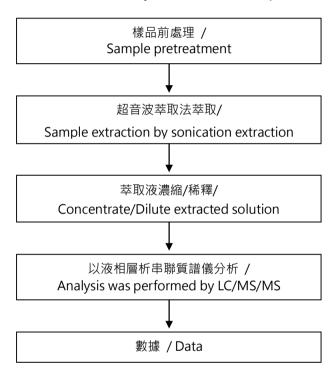
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雙酚A分析流程圖 / Analytical flow chart - Bisphenol A





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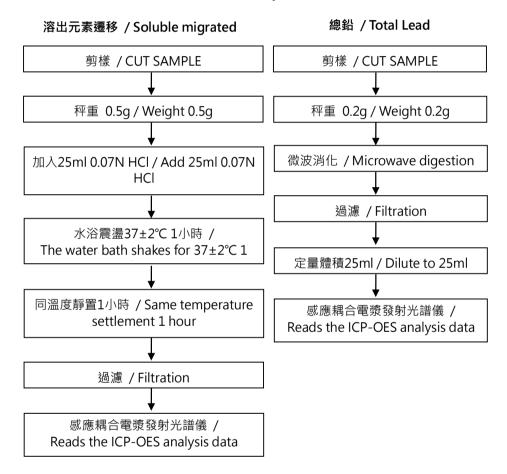
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ASTM F963 分析流程圖 / Analytical flow chart- ASTM F963





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CPSIA 非金屬分析流程圖 / Analytical flow chart - CPSIA Non-Metal





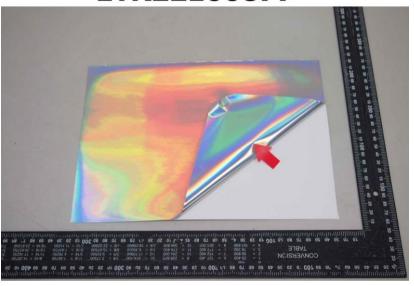
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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR22100877



** 報告結尾 (End of Report) **