SPECIFICATION

APPLICATION FOR APPROVAL

CUSTOMER : CS P/N : PART NAME : DEVE NO. : AUDEN NO. : CipherLAB Co., Ltd KZNF0FC260011 RK26 PlotoPlus T-0305_RK26 _ PlotoPlus B12793-00

CUSTOMER APPROVED

Auden Techno Corp.					
RF	MECHANICAL	R&D	PRODUCT		
ENGINEER	ENGINEER	MANAGER	MANAGER		
CHECKED	CHECKED	CHECKED	CHECKED		
Derek Yan	Tony Chen	Franky Lai	Tony Lee		

No Perfect Status, Always Seek for Better

Auden Techno Corp.

NO.19, LANE 772 HO-PING ROAD, PA-TE DIST, TAO-YUAN CITY, TAIWAN

(TEL): 886-3-3631901

auden

6

(FAX) : 886-3-3660619

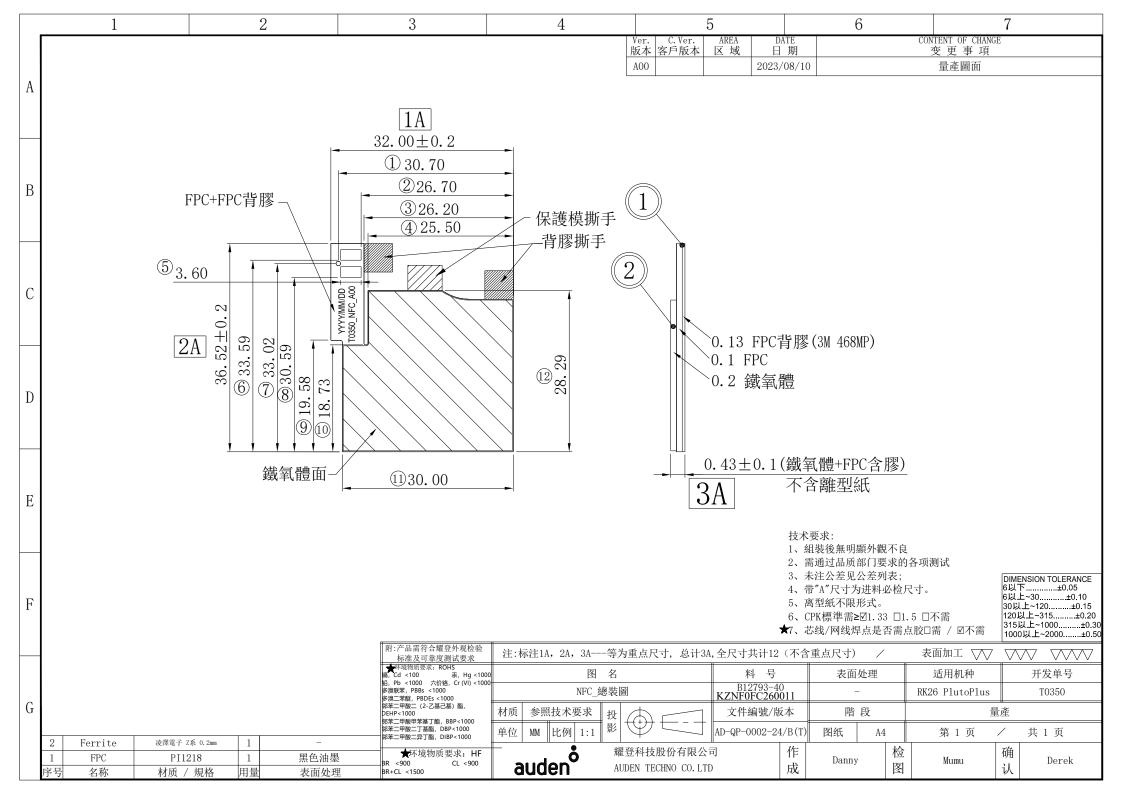
http://www.auden.com.tw ttp://www.auden.com.tw

This Document contains confidential and proprietary information, cannot discourse to third party without the prior written authorization of Auden.



CONTENTS

- 1 圖檔
- 2 FAI&CPK
- **3 RF TEST REPORT**



全尺寸测量报告

	Ve	endor(供应商)			Part N	0(料号)			В	12792-(00			Tool N	Cav.	Numt 穴数)	ber			Unit(单位)		mment 十者签字		
						Part I (零件	Name 名称)				T0350*	c	(模号) 2# INCHES ■MILLIM		Rev			IMETER	TER								
	日期		2023/4/25		4/25				MEASU	JRED DIM	ENSION(实	[测尺寸]			'	% TOLE USED(公	差使用百					SITIO	N			EPTAB RIANC	
DIM.#	DIMENSIO	DRAWIN G ZONE	+ TOL.	- TOL.	NOTE	SAMPL E 1	SAMPL E 2	SAMPL E 3	SAMPL E 4	SAMPL E 5	SAMPL E 6	SAMPL E 7	SAMPL E 8	SAMPL E 9	SAMPL E 10	UPPER	LOWER	0%-25%	50%-75%	75%-100%	100%+	Re-Measur Accent	Fix Tool	Accept With			-
1	64.270	1A	0.15	0.15		64.214	64.230									0%	37%		<								
2	60.210	2A	0.15	0.00		60.210	60.225									10%	0%	х									
3	19.980	3A	0.15	0.15		19.908	19.920									0%	48%)	<								
4	18.880	4A	0.15	0.15		18.830	18.826									0%	36%)	<								
5	19.980	5A	0.15	0.15		19.914	19.930									0%	44%	2	<								
6	9.550	6A	0.15	0.15		9.558	9.556									5%	0%	х									
7	52.400	7A	0.15	0.15		52.410	52.425									17%	0%	х									
8	67.200	8A	0.15	0.15		67.272	67.285									57%	0%		х								
1	2.800	1	0.10	0.10		2.707	2.715									0%	93%			х							
2	57.400	2	0.10	0.10		57.402	57.405									5%	0%	х									
3	60.200	3	0.10	0.10		60.296	60.291									96%	0%			х							
4	42.400	4	0.10	0.10		42.452	42.449									52%	0%		х								
5	42.400	5	0.10	0.10		42.355	42.358									0%	45%	;	<								
核/																											

auden

T0350 CPK Report

Part Number(料号)				B12792-00				厂商/耀登
Description(零件名称)				T0350				测量人员/曹影利
Tool Number(模号)				1				单位/mm
Cavity(穴号)				1				
Revision(版本)				/				測量日期/2023/4/25
Designator(尺寸序号)	14	2A	3A	44	5A	6A	78	8A
Nominal(公称尺寸)	64.27	60. 21	19.98	18.88	19.98	9.55	52.40	67.20
+ Tolerance(正公差)	0. 15	0. 15	0.15	0.15	0.15	0.15	0.15	0.15
- Tolerance(负公差)	-0.15	0.00	-0.15	-0.15	-0.15	-0. 15	-0.15	-0. 15
Upper Limit(規格上限)	64. 42	60.36	20.13	19.03	20.13	9.70	52. 55	67.35
Lower Limit(規格下限)	64.12	60.21	19.83	18.73	19.83	9.40	52.25	67.05
1	64.214	60.228	19.908	18.830	19.914	9.558	52.410	67.270
2	64.230	60.224	19.920	18.826	19.930	9.556	52.425	67.285
3	64.220	60.225	19.930	18.830	19.930	9.500	52.395	67.250
4	64.190	60.223	19.900	18.800	19.900	9.570	52.410	67.260
5	64.200	60.221	19.910	18.810	19.910	9.580	52.405	67.250
6	64.210	60.220	19.920	18.820	19.920	9.590	52.395	67.250
7	64.220	60.223	19.930	18.830	19.930	9.600	52.398	67.230
8	64.200	60.225	19.910	18.810	19.910	9.580	52.410	67.250
9	64.180	60.220	19.890	18.790	19.890	9.560	52.410	67.240
10	64.200	60.220	19.910	18.810	19.910	9.580	52.380	67.250
11	64.190	60.228	19.900	18.800	19.900	9.547	52.410	67.260
12	64.220	60.223	19.930	18.830	19.930	9.600	52.395	67.250
13	64.196	60.225	19.900	18.800	19.900	9.570	52.395	67.250
14	64.200	60.227	19.910	18.810	19.910	9.580	52.398	67.230
15	64.220	60.224	19.930	18.830	19.930	9.600	52.395	67.250
16	64.190	60.229	19.900	18.800	19.900	9.570	52.410	67.240
17	64.170	60.228	19.880	18.780	19.880	9.550	52.395	67.250
18	64.200	60.226	19.910	18.810	19.910	9.580	52.398	67.260
19	64.170	60.225	19.880	18.780	19.880	9.550	52.395	67.250
20	64.190	60.224	19.900	18.800	19.900	9.570	52.398	67.250
21	64.200	60.220	19.910	18.810	19.910	9.580	52.395	67.230
22	64.190	60.219	19.900	18.800	19.900	9.570	52.395	67.250
23	64.220	60.222	19.930	18.830	19.930	9.600	52.390	67.260
24	64.190	60.225	19.900	18.800	19.900	9.570	52.395	67.250
25	64.170	60.224	19.880	18.780	19.880	9.550	52.395	67.250
26	64.230	60.223	19.940	18.840	19.940	9.610	52.395	67.230
27	64.200	60.219	19.910	18.810	19.910	9.580	52.405	67.250
28	64.220	60.224	19.930	18.830	19.930	9.600	52.395	67.240
29	64.185	60.221	19.900	18.800	19.900	9.570	52.400	67.250
30	64.200	60.221	19.940	18.840	19.940	9.610	52.395	67.270
MAX.	64.23	60.23	19.94	18.84	19.94	9.61	52.43	67.29
MIN.	64.17	60.22	19.88	18.78	19.88	9.50	52.38	67.23
AVERAGE	64.20	60.22	19.91	18.81	19.91	9.57	52.40	67.25
STDEV	0.02	0.00	0.02	0.02	0.02	0.02	0.01	0.01
CP	2.93	8.81	2.96	2.87	2.90	2.18	5.83	4.09
Cpk	1.57	1.59	1.58	1.55	1.56	1.82	5. 81	2. 73
TOOLING(测量工具)	2.5D	2. 5D	2. 5D	2.5D	2. 5D	2. 5D	2. 5D	2. 5D



Auden P/N :

DEVE NO.: NFC ANT Application Date: Aug 17, 2023 Rev: 0 Page 1

RF TEST REPORT

1.ELECTRICAL SPECIFICATIONS

1-1 FREQUENCY BAND

Freq. Band	Frequency
NFC	13.56 MHZ

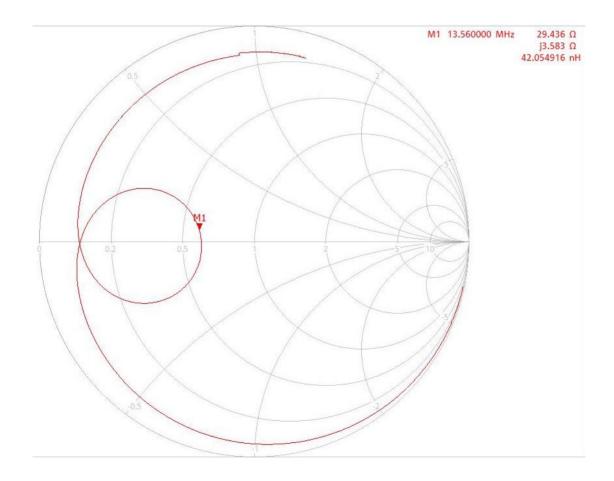
1-2 IMPEDANCE

Nominal Impedance (including matching circuit) : 50 ohms

1-3 MATCHING REQUIREMENTS N/A

1-4 Smith Chart

1-4-1 Antenna Smith Chart Plot.





Auden P/N :

DEVE NO.: NFC ANT Application Date: Aug 17, 2023 Rev: 0 Page 2

1-5 NFC Reading Distance

	Performance evaluate for NFC					
	Condition	PT_Cond.00				
	Date		2023/05/24			
	Rmatch	n, ohms	30			
	LO,	nH	160			
	С0,	pF	560			
Antenna Matching	C1 = F	C2929, C2905	47			
atch	C1, pF	C2928, C2906	18			
Σ	() " [C2907, C2930	150			
suna	C2, pF	C2908, C2931	27			
Ante	Rrx, c	ohms	1k			
	De	tail	1. Tune matching by using RK26 DVT PCB 2. Config VDDPA set to 3v3			
	Card Lis	t	Reading Distance, mm			
	NFC Tag Type 2	36				
	NFC Tag Type 2 (49				
	NFC Tag Type 3	無法讀取				
	NFC Tag Type 4	(NDEF DESFire)	24			
	NXP i-Code SLI->	((1K, ISO 15693)	79			



測試報告 **Test Report** 號碼(No.): ETR22705905 頁數(Page):1 of 13 日期(Date): 05-Aug-2022 優立實業股份有限公司 (UNIRES CHEMICAL IND. CO., LTD.) 桃園市觀音工業區經建四路22號 (NO.22, JINGJIAN 4TH RD., GUANYIN DISTRICT, TAOYUAN CITY, 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 the applicant as) : 送樣廠商(Sample Submitted By) 優立實業股份有限公司 (UNIRES CHEMICAL IND. CO., LTD.) : 樣品名稱(Sample Name) 防焊油墨 樣品型號(Style/Item No.) : PSM-800/SMH-800/BK5/BK6/BK7/BK8/BK8A/DM6/DM7/FBK/ FBK5/FBK7/FDM/FMBL2/FMBL3/FMBL4/FMBL5/FMBL6/FMBL7/ FMBL8/FMBL9/FSBK/FSBK5/FSDM/FSDM-A/FSDM-B/FSDM-C/ FSDM-D/FSDM-F/FSMBL2/FSMBL4/FSMBL5/FSMBL6/FSMBL7/ FSMBL8/FSMBL9/FSDM9/FSUK 顏色(Color) 黑色 (BLACK INK) ______ 收件日(Sample Receiving Date) 29-Jul-2022 : 測試期間(Testing Period) : 29-Jul-2022 to 05-Aug-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).) 測試結果(Test Results) 請參閱下一頁 (Please refer to following pages.)





PIN CODE: C751674B

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



號碼(No.): ETR22705905

日期(Date): 05-Aug-2022

頁數(Page): 2 of 13

優立實業股份有限公司 (UNIRES CHEMICAL IND. CO., LTD.) 桃園市觀音工業區經建四路22號 (NO.22, JINGJIAN 4TH RD., GUANYIN DISTRICT, TAOYUAN CITY, TAIWAN)

測試部位敘述 (Test Part Description)

No.1 : 黑色片狀 (BLACK SHEET)

測試結果 (Test Results)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-	參考IEC 62321-5: 2013 · 以感應耦合電漿發射光	mg/kg	2	n.d.
43-9)	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,以感應耦合電漿發射光	mg/kg	2	n.d.
	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 · 以感應耦	mg/kg	2	n.d.
97-6)	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-可見光分光	mg/kg	8	n.d.
Cr(VI)) (CAS No.: 18540-29-9)	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)		mg/kg	5	n.d.
五溴聯苯 (Pentabromobiphenyl)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分	mg/kg	5	n.d.
六溴聯苯 (Hexabromobiphenyl)	$_{ m \circ}$ (With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.
七溴聯苯 (Heptabromobiphenyl)	analysis was performed by 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.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



號碼(No.): ETR22705905

日期(Date): 05-Aug-2022

頁數(Page): 3 of 13

優立實業股份有限公司 (UNIRES CHEMICAL IND. CO., LTD.)

桃園市觀音工業區經建四路22號 (NO.22, JINGJIAN 4TH RD., GUANYIN DISTRICT, TAOYUAN CITY, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) 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	mg/kg	5	n.d.
六溴聯苯醚 (Hexabromodiphenyl ether)	析。(With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.
七溴聯苯醚 (Heptabromodiphenyl ether)	analysis was performed by GC/MS.)	mg/kg	5	n.d.
八溴聯苯醚 (Octabromodiphenyl ether)		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	-	n.d.
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl		mg/kg	50	n.d.
phthalate (BBP)) (CAS No.: 85-68-7) 鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2)		mg/kg	50	n.d.
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di- (2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7)		mg/kg	50	n.d.
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分 析。(With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40- 0, 68515-49-1)	analysis was performed by GC/MS.)	mg/kg	50	n.d.
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12- 0, 68515-48-0)		mg/kg	50	n.d.
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)		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.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



測試報告

Test Report

號碼(No.): ETR22705905

日期(Date): 05-Aug-2022

頁數(Page): 4 of 13

優立實業股份有限公司 (UNIRES CHEMICAL IND. CO., LTD.)

桃園市觀音工業區經建四路22號 (NO.22, JINGJIAN 4TH RD., GUANYIN DISTRICT, TAOYUAN CITY, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
		(1	50	No.1
中鏈氯化石蠟(C14-C17) (MCCP)	參考ISO 18219: 2015 · 以氣相層析儀/質譜儀分	mg/kg	50	n.d.
(Medium Chain Chlorinated	析。(With reference to ISO 18219: 2015,			
Paraffins(C14-C17) (MCCP)) (CAS No.:	analysis was performed by GC/MS.)			
85535-85-9) 銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-	参考US EPA 3052: 1996 · 以感應耦合電漿發射光	ma /l/a	2	n.d.
-	参考US EPA 3052. 1996,以恩愿柄□龟浆设别元 譜儀分析。(With reference to US EPA 3052:	mg/kg	Z	n.a.
36-0)				
	1996, analysis was performed by ICP-OES.)	(1	0.01	
全氟辛烷磺酸及其鹽類 (PFOS and its	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
salts) (CAS No.: 1763-23-1 and its salts)	儀分析。(With reference to CEN/TS 15968:			
	2010, analysis was performed by LC/MS/MS.)			
N-乙基全氟正辛磺醯胺 (EtFOSA) (N-	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
ethylperfluoro-1-octanesulfonamide	儀分析。(With reference to CEN/TS 15968:			
(EtFOSA)) (CAS No.: 4151-50-2)	2010, analysis was performed by LC/MS/MS.)			
N-甲基全氟正辛磺醯胺 (N-Me-FOSA)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
(N-Methyl-Perfluoroctanesulfonamide	儀分析。(With reference to CEN/TS 15968:			
(N-Me-FOSA)) (CAS No.: 31506-32-8)	2010, analysis was performed by LC/MS/MS.)			
N-乙基全氟辛基磺醯胺乙醇 (N-Et-FOSE	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
alcohol) (N-Ethyl-	儀分析。(With reference to CEN/TS 15968:			
Perfluoroctanesulfonamidoethanol (N-	2010, analysis was performed by LC/MS/MS.)			
Et-FOSE alcohol)) (CAS No.: 1691-99-2)				
N-甲基全氟辛基磺醯胺乙醇 (N-Me-FOSE	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
alcohol) (N-Methyl-	儀分析。(With reference to CEN/TS 15968:			
Perfluoroctanesulfonamidoethanol (N-	2010, analysis was performed by LC/MS/MS.)			
Me-FOSE alcohol)) (CAS No.: 24448-				
09-7)				
全氟辛基磺醯胺 (PFOSA)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
(Perfluoroctanesulfonamide (PFOSA))	儀分析。(With reference to CEN/TS 15968:			
(CAS No.: 754-91-6)	2010, analysis was performed by LC/MS/MS.)			
全氟辛酸及其鹽類 (PFOA and its salts)	参考CEN/TS 15968: 2010,以液相層析串聯質譜	mg/kg	0.01	n.d.
(CAS No.: 335-67-1 and its salts)	儀分析。(With reference to CEN/TS 15968:			
	2010, analysis was performed by LC/MS/MS.)			

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



測試報告

Test Report

號碼(No.): ETR22705905

日期(Date): 05-Aug-2022

頁數(Page): 5 of 13

優立實業股份有限公司 (UNIRES CHEMICAL IND. CO., LTD.)

桃園市觀音工業區經建四路22號 (NO.22, JINGJIAN 4TH RD., GUANYIN DISTRICT, TAOYUAN CITY, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1
1H,1H,2H,2H-全氟癸磺酸 (8:2 FTS) (1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)) (CAS No.: 39108-34-4)	參考CEN/TS 15968: 2010,以液相層析串聯質譜 儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
全氟辛酸甲酯 (Me-PFOA) (Methyl perfluorooctanoate (Me-PFOA)) (CAS No.: 376-27-2)	參考CEN/TS 15968: 2010 以氣相層析儀/質譜儀 分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.
全氟辛酸乙酯 (Et-PFOA) (Ethyl perfluorooctanoate (Et-PFOA)) (CAS No.: 3108-24-5)	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜儀 分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH) (1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)) (CAS No.: 678-39-7)	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜儀 分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.
1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2 FTA) (1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)) (CAS No.: 27905-45- 9)	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜儀 分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.
1H,1H,2H,2H-全氟癸基甲基丙烯酸鹽 (8:2 FTMA) (1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)) (CAS No.: 1996-88-9)	參考CEN/TS 15968: 2010,以氣相層析儀/質譜儀 分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.
全氟辛基碘烷 (PFOI) (Perfluoro-1- iodooctane (PFOI)) (CAS No.: 507-63-1)	參考CEN/TS 15968: 2010 · 以氣相層析儀/質譜儀 分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	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. 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.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.





號碼(No.): ETR22705905

日期(Date): 05-Aug-2022

頁數(Page): 6 of 13

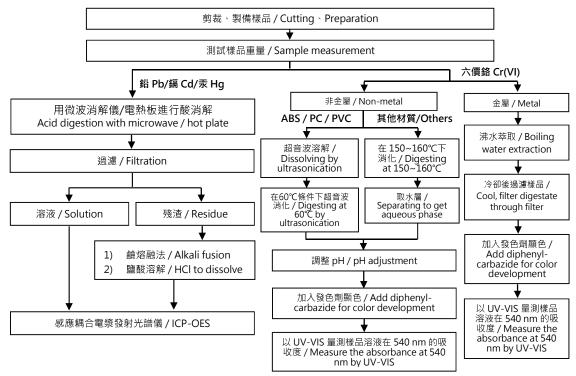
優立實業股份有限公司 (UNIRES CHEMICAL IND. CO., LTD.)

桃園市觀音工業區經建四路22號 (NO.22, JINGJIAN 4TH RD., GUANYIN DISTRICT, TAOYUAN CITY, 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)



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



號碼(No.): ETR22705905

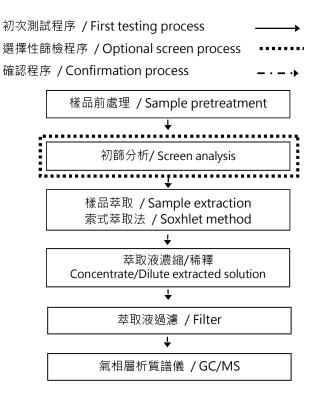
日期(Date): 05-Aug-2022

頁數(Page): 7 of 13

優立實業股份有限公司 (UNIRES CHEMICAL IND. CO., LTD.)

桃園市觀音工業區經建四路22號 (NO.22, JINGJIAN 4TH RD., GUANYIN DISTRICT, TAOYUAN CITY, TAIWAN)

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



號碼(No.): ETR22705905

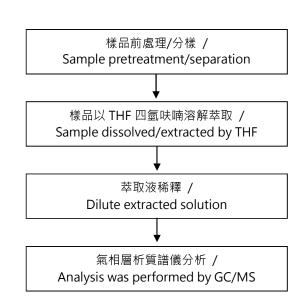
日期(Date): 05-Aug-2022

頁數(Page): 8 of 13

優立實業股份有限公司 (UNIRES CHEMICAL IND. CO., LTD.)

桃園市觀音工業區經建四路22號 (NO.22, JINGJIAN 4TH RD., GUANYIN DISTRICT, TAOYUAN CITY, TAIWAN)

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



【測試方法/Test method: IEC 62321-8】

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



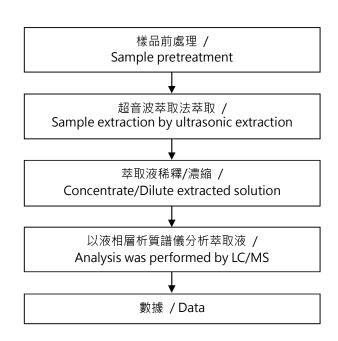
號碼(No.): ETR22705905

日期(Date): 05-Aug-2022

頁數(Page): 9 of 13

優立實業股份有限公司 (UNIRES CHEMICAL IND. CO., LTD.)

桃園市觀音工業區經建四路22號 (NO.22, JINGJIAN 4TH RD., GUANYIN DISTRICT, TAOYUAN CITY, TAIWAN)



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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



號碼(No.): ETR22705905

日期(Date): 05-Aug-2022

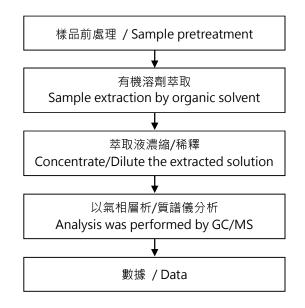
頁數(Page): 10 of 13

優立實業股份有限公司 (UNIRES CHEMICAL IND. CO., LTD.) 桃園市觀音工業區經建四路22號 (NO.22, JINGJIAN 4TH RD., GUANYIN DISTRICT, TAOYUAN CITY, TAIWAN)

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



號碼(No.): ETR22705905

日期(Date): 05-Aug-2022

頁數(Page): 11 of 13

優立實業股份有限公司 (UNIRES CHEMICAL IND. CO., LTD.)

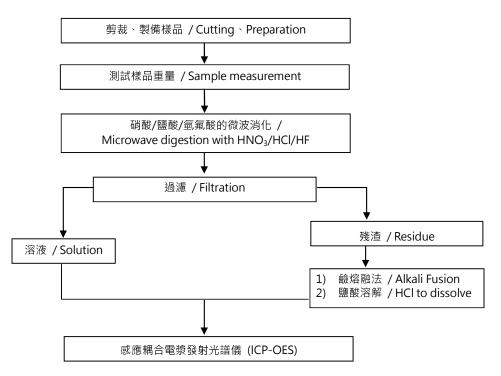
桃園市觀音工業區經建四路22號 (NO.22, JINGJIAN 4TH RD., GUANYIN DISTRICT, TAOYUAN CITY, TAIWAN)

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.

【參考方法/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.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



號碼(No.): ETR22705905

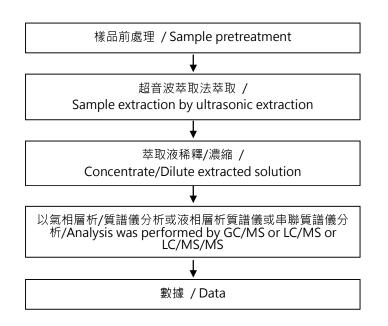
日期(Date): 05-Aug-2022

頁數(Page): 12 of 13

優立實業股份有限公司 (UNIRES CHEMICAL IND. CO., LTD.)

桃園市觀音工業區經建四路22號 (NO.22, JINGJIAN 4TH RD., GUANYIN DISTRICT, TAOYUAN CITY, TAIWAN)

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.)



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



號碼(No.): ETR22705905

日期(Date): 05-Aug-2022

頁數(Page): 13 of 13

優立實業股份有限公司 (UNIRES CHEMICAL IND. CO., LTD.) 桃園市觀音工業區經建四路22號 (NO.22, JINGJIAN 4TH RD., GUANYIN DISTRICT, TAOYUAN CITY, TAIWAN)

> * 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.)



ETR22705905

** 報告結尾 (End of Report) **

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



检测报告 编号: SHAEC23001049106

日期: 2023 年 02 月 15 日 第 1 页,共 9 页

客户名称: 苏州蔡伦格蒂电子材料有限公司 客户地址: 江苏省太仓市太平北路 168 号

样品名称:

电解柔性覆铜箔基材

以上样品及信息由客户提供。

SGS 工作编号:	SP23-002431
样品接收时间:	2023年02月09日
检测周期:	2023年02月09日-2023年02月15日
检测要求:	根据客户要求检测。
检测方法:	见后续页。
检测结果:	见后续页。

检测要求	结论
卤素	见检测结果
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六 价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯 二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁 酯(DIBP)	符合

通标标准技术服务(上海)有限公司 授权签名



Dora Hu 胡敏 批准签署人





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sas.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions ort & certificate, please contact us at telephone: (86-755) 8307 1443,

3rdBuilding,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn 中国・上海・徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21) 61156899

e sgs.china@sgs.com



检测报告 编号: SHAEC23001049106

日期: 2023 年 02 月 15 日

检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A2	SHA23-0010491-0001.C002	棕色/铜色固体片

备注:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL= 方法检测限

(3) ND = 未检出(< MDL)

(4) "-" = 未规定

检测方法: 参考 EN 14582:2016,采用 IC 进行分析。

检测项目	单位	MDL	A2
氟 (F)	mg/kg	50	ND
氯 (CI)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多

<u>溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基已基)酯</u>

(DEHP)和邻苯二甲酸二异丁酯(DIBP)

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A2
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND
二溴联苯(DiBB)	-	mg/kg	5	ND
三溴联苯 (TriBB)	-	mg/kg	5	ND
四溴联苯 (TetraBB)	-	mg/kg	5	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Countent.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document and the document approace of this document is approace of the Company's be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

3¹⁶Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t E&E (86–21) 61402553 f E&E (86–21)64953679 www.sgsgroup.com.cn t HL (86–21) 61402594 f HL (86–21)61156899 e sgs.china@sgs.com



编号: SHAEC23001049106

日期: 2023 年 02 月 15 日

第3页,共9页

检测项目	限值	单位	MDL	A2
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注:

(1) 最大允许极限值引用自 RoHS 指令(EU) 2015/863。

(2) IEC 62321 系列等同于 EN 62321 系列。

(3) 2021 年 7 月 22 号开始, DEHP, BBP, DBP 和 DIBP 的限制适用于医疗器械,包括体外医疗器械,监控 仪表,包括工业监测和控制仪器。

除非另有说明,参照 ILAC-G8:09/2019,使用简单接受(w=0)的二元判定规则进行符合性判定。 除非另有说明,此报告结果仅对检测的样品负责。本报告未经本公司书面许可,不可部分复制。 检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的,仅供内部参考。



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document again advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document approach a vitansaction from exercising all their rights and obligations under the transaction documents. This document to annot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or resputs shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing (inspection report a certificate, please contact us at telephone: (86-755) 8307 1443, ort & certificate, please contact us at telephone: (86-755) 8307 1443,

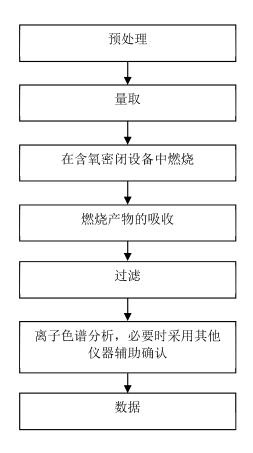
3rdBuilding, No.889 Yishan Road Xuhui District, Shanghai China 200233 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21) 61156899



附件

编号: SHAEC23001049106

卤素检测流程图





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sas.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sas.com/en/Terms-and-Conditions.aspx and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document agay. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or resputs shown in this test report refer only to the sample(s) tested. Attention: <u>To check the authenticity of testing of Inspection report 8 certificate, please contact us at telephone:</u> (86-755)8307 1443,

3¹⁶Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn 中国・上海・徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

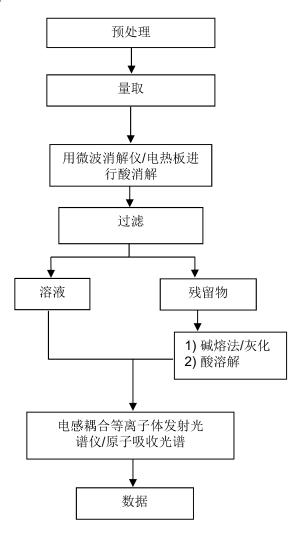


编号: SHAEC23001049106

附件

元素 (IEC62321) 检测流程图

样品按照下述流程被完全消解





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sas.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sas.com/en/Terms-and-Conditions.aspx and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document agay. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or resputs shown in this test report refer only to the sample(s) tested. Attention: <u>To check the authenticity of testing of Inspection report 8 certificate, please contact us at telephone:</u> (86-755)8307 1443,

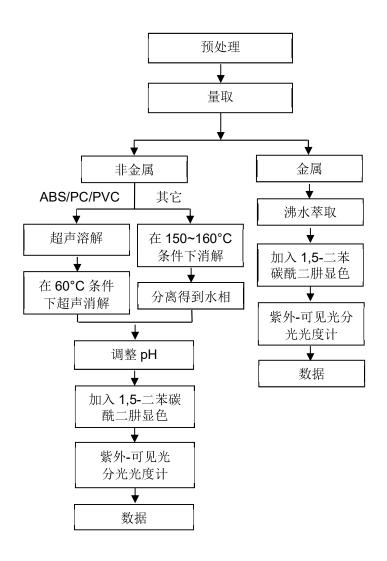
3¹⁶Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn 中国・上海・徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com



附件

编号: SHAEC23001049106

六价铬检测流程图





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sas.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sas.com/en/Terms-and-Conditions.aspx and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document again advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document approach average particular obligations under the transaction documents. This document to annot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or resputs shown in this test report refer only to the sample(s) tested. Attention: <u>To check the authenticity of testing of inspection report & certificate, please contact us at telephone:</u> (86-755) 8307 1443,

3rdBuilding,No.889 Yishan Road Xuhui District,Shanghai China 200233 t t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn 中国 • 上海 • 徐汇区宜山路889号3号楼 邮编: 200233 t tHL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

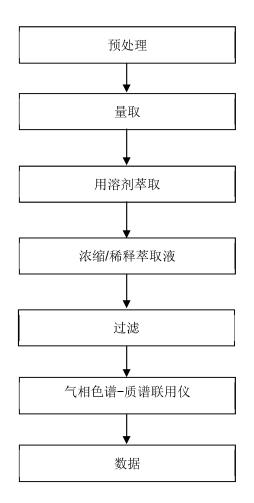
fHL (86-21)61156899 e sgs.china@sgs.com Member of the SGS Group (SGS SA)



附件

编号: SHAEC23001049106

PBBs/PBDEs 检测流程图





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sas.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sas.com/en/Terms-and-Conditions.aspx and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document agay. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or resputs shown in this test report refer only to the sample(s) tested. Attention: <u>To check the authenticity of testing of Inspection report 8 certificate, please contact us at telephone:</u> (86-755)8307 1443,

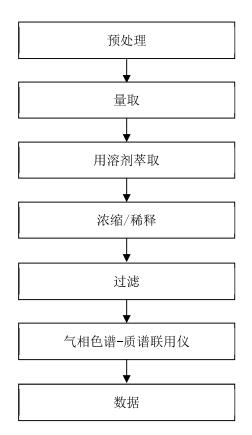
3¹⁶Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn 中国・上海・徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com



附件

编号: SHAEC23001049106

Phthalates 检测流程图

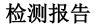




Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sas.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sas.com/en/Terms-and-Conditions.aspx and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document agay. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or resputs shown in this test report refer only to the sample(s) tested. Attention: <u>To check the authenticity of testing of Inspection report 8 certificate, please contact us at telephone:</u> (86-755)8307 1443, report & certificate, please contact us at telephone: (86-755) 8307 1443,

3rdBuilding,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com





编号: SHAEC23001049106

日期: 2023 年 02 月 15 日

样品照片:



此照片仅限于随 SGS 正本报告使用 ***报告结束***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sas.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sas.com/en/Terms-and-Conditions.aspx and, for electronic format documents, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document agay. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or resputs shown in this test report refer only to the sample(s) tested. Attention: <u>To check the authenticity of testing of Inspection report 8 certificate, please contact us at telephone:</u> (86-755)8307 1443,

3^{2*}Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t tE&E (86-21) 61402553 中国・上海・徐江区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594

t E&E (86–21) 61402553 f E&E (86–21)64953679 www.sgsgroup.com.cn t HL (86–21) 61402594 f HL (86–21)61156899 e sgs.china@sgs.com



No. SHAEC2217569205

Date: 04 Jan 2023

Page 1 of 8

3M CHINA LIMITED Client Name : Client Address : 222 TIANLIN ROAD, SHANGHAI

Sample Name : 3M 9471LE Model No. : 3M 9471LE Client Ref. Information : 3M 9472LE, 3M 9671LE, 3M 9653LE, 3M 9672LE The above sample(s) and information were provided by the client.

SGS Job No. :	SP22-030957 - SH
Date of Sample Received :	23 Dec 2022
Testing Period :	23 Dec 2022 - 30 Dec 2022
Test Requested :	Selected test(s) as requested by the client.
Test Method(s) :	Please refer to next page(s).
Test Result(s) :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Sue Shong

Sue Sheng Approved Signatory





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions/aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability. Indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not excerpt and this document is one except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@ags.com 3rdBuilding, No.889 Yishan Road Xuhui District, Shanghai China 200233

中国・上海・徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com



No. SHAEC2217569205

Page 2 of 8

Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA22-175692.001	Colorless transparent adhesive film

Remarks :

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions/aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability. Indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not excert and their document does not excert and the prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@gss.com

3rdBuilding, No.889 Yishan Road Xuhui District, Shanghai China 200233 中国・上海・徐汇区宜山路889号3号楼 邮编: 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn

t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com



Test Report	No. SHAEC22175692	05	Date: ()4 Jan 2023	Page 3 of 8
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND	
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the sample(s) tested. Attention: To check the authenticity of testing finspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or exercising the procedure of the sample(s) tested.

3¹⁶Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 中国・上海・徐汇区宜山路889号3号楼 邮编: 200233 tE&E (86-21) 61402553 fE&E (86-21)64953679 www.sgsgroup.com.cn

t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com



No. SHAEC2217569205

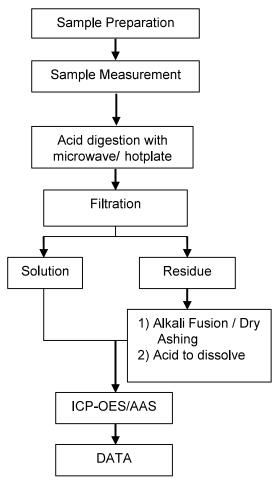
Date: 04 Jan 2023

Page 4 of 8

ATTACHMENTS

Elements (IEC62321) Testing Flow Chart

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





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions/aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability. Indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not excert and their document does not excert and the prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@gss.com

3rdBuilding, No.889 Yishan Road Xuhui District, Shanghai China 200233 中国・上海・徐汇区宜山路889号3号楼 邮编: 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn

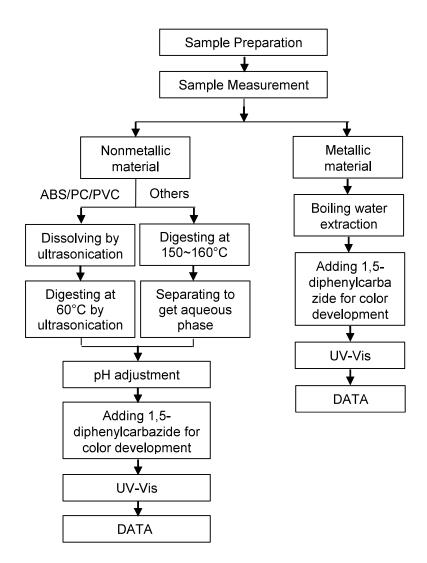
t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com



No. SHAEC2217569205

ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of tiability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior writen approval of the Company. Any unauthorized alteration, forgery or falsification of the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or emails (CN Doccheck@sons.com)

3¹⁴Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 中国・上海・徐汇区宜山路889号3号楼 邮编: 200233 1 E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn

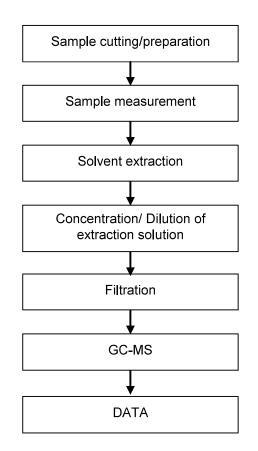
t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com



No. SHAEC2217569205

ATTACHMENTS

PBBs/PBDEs Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions/aspx and, for electronic format documents, subject to Terms and Conditions/Terms-and-Conditions/Terms-enDocument.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-enDocument.aspx. Attention is drawn to the limitation of liability. Indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not excerpt and excerpt in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@gss.com"

3rdBuilding, No.889 Yishan Road Xuhui District, Shanghai China 200233 中国・上海・徐汇区宜山路889号3号楼 邮编: 200233 t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn

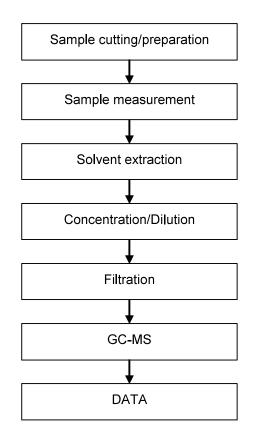
t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com



No. SHAEC2217569205

ATTACHMENTS

Phthalates Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions/aspx and, for electronic format documents, subject to Terms and Conditions/Terms-and-Conditions/Terms-enDocument.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-enDocument.aspx. Attention is drawn to the limitation of liability. Indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not excerpt and excerpt in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@gss.com"

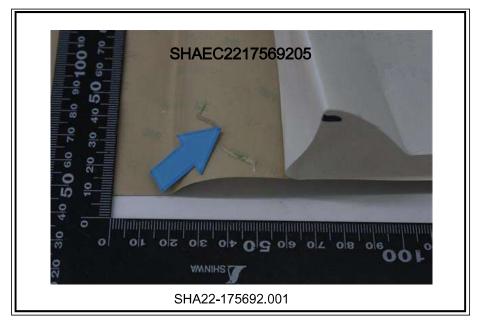
3rdBuilding,No.889 Yishan Road Xuhui District,Shanghai China 200233 中国・上海・徐汇区宜山路889号3号楼 邮编: 200233 t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn

t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com Member of the SGS Group (SGS SA)



No. SHAEC2217569205

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions/

3¹⁴Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)



第1页,共7页

测试报告NO.: BRCWUUVB3047967D1委托单位:昆山凌泽电子有限公司地址:昆山市玉山镇新塘路 619 号 5 号 6 层委托单位提供样品信息如下:样品名称:镍锌铁氧体样品型号:JF150-XXX样品来源:送样

样品接收日期: 2023-05-11 样品测试日期: 2023-05-11~2023-05-17

请参见下页

测试依据:

(1) IEC 62321-5 Edition 1.0:2013 的方法,用原子吸收光谱仪测定铅的含量
(2) IEC 62321-5 Edition 1.0:2013 的方法,用原子吸收光谱仪测定镉的含量
(3) IEC 62321-4:2013+AMD1:2017 CSV 的方法,用电感耦合等离子体发射光谱仪测定汞的含量
(4) IEC 62321-7-1 Edition 1.0:2015 的方法,用紫外-可见分光光度计测定六价铬的含量
(5) IEC 62321-6 Edition 1.0:2015 的方法,用气相色谱质谱联用仪测定多溴联苯和多溴二苯醚的含量
(6) IEC 62321-8 Edition 1.0:2017 的方法,用气相色谱质谱联用仪测定邻苯二甲酸酯类的含量
(7) EN 14582: 2016 的方法,用离子色谱仪测定氟,氯,溴,碘的含量

PONY-SHBG056-02C-001-2022A

	2. み れ 慈 双 双	审核: 	<u> </u>	
t准:	CROPHINE SE	签发日期:	2023-05-17	
		——本页以下空白———	- ///	
· FONU ISO	B 5			
	V AR			

测试地址:上海市松江区施园路 288 号

回访/清泌生 查询密码: dvmjvwpyb



第2页,共7页

测试报告 NO.: BRCWUUVB3047967D1

测试结果 (单位: mg/kg)

样品编号及名称: B3047967D1 镍锌铁氧体

测试项目	方法检出限	测试结果	RoHS 限量
	1	未检出	1000
镉	<u> </u>	未检出	100
汞	1	未检出	1000
六价铬	参见备注(4)	阴性	
多溴联苯之和	- 20 1	未检出	1000
一溴联苯	5	未检出	<u> </u>
二溴联苯	5	未检出	
三溴联苯	5	未检出	15 ¹⁰
四溴联苯	5	未检出	
五溴联苯	5	未检出	2° - / /
六溴联苯	5	未检出	<u> </u>
七溴联苯	5	未检出	- \
八溴联苯	5	未检出	—
九溴联苯	5	未检出	A –
十溴联苯	5	未检出	
多溴二苯醚之和		未检出	1000
一溴二苯醚	5	未检出	
二溴二苯醚	5	未检出	<u> </u>
三溴二苯醚	5	未检出	139 -5
四溴二苯醚	5	未检出	<u></u>
五溴二苯醚	5	未检出	
六溴二苯醚	5	未检出	Sm
七溴二苯醚	5	未检出	
八溴二苯醚	5	未检出	
九溴二苯醚	5	未检出	\sim
十溴二苯醚	5	未检出	

-本页以下空白---

 C Hotline 400-819-5688
 谱尼测试集团上海有限公司

 Www.ponytest.com
 公司地址:上海市松江区施园路 288 号 1 幢 4 层 A 区
 电话; 021-64851999

 NONY-SHBG056-02C-001-2022A
 测试地址:上海市松江区施园路 288 号
 1 幢 4 层 A 区
 电话; 021-64851999



测试报告 NO.: BRCWUUVB3047967D1

测试结果 (单位: mg/kg)

测试项目	CAS 号	方法检出限	测试结果	RoHS 限量
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	30	未检出	1000
邻苯二甲酸二丁酯(DBP)	84-74-2	30	未检出	1000
邻苯二甲酸苄基丁酯(BBP)	85-68-7	30	未检出	1000
邻苯二甲酸二异丁酯(DIBP)	84-69-5	30	未检出	1000

测试结果 (单位: mg/kg)

测试项目	方法检出限	测试结果
氟	50	未检出
氯	50	未检出
溴	50	未检出
碘	50	未检出

备注: (1) 0.1% = 1000 mg/kg = 1000 ppm

(2) "—"= 未规定

(3) 最大允许极限值引用 RoHS 2011/65/EU 及修订指令(EU)2015/863 附录 II 的要求

(4) 沸水萃取测试:

<0.10 µg/cm²以阴性表示,即镀层中不存在六价铬

0.10 µg/cm² ~0.13µg/cm²无法判定镀层中是否存在六价铬,需进一步确定。

>0.13 µg/cm²以阳性表示,即镀层中存在六价铬。

(5) 未检出(<方法检出限)

样品编号和照片:



B3047967D1

仅对报告照片中的样品负责 ——本页以下空白——





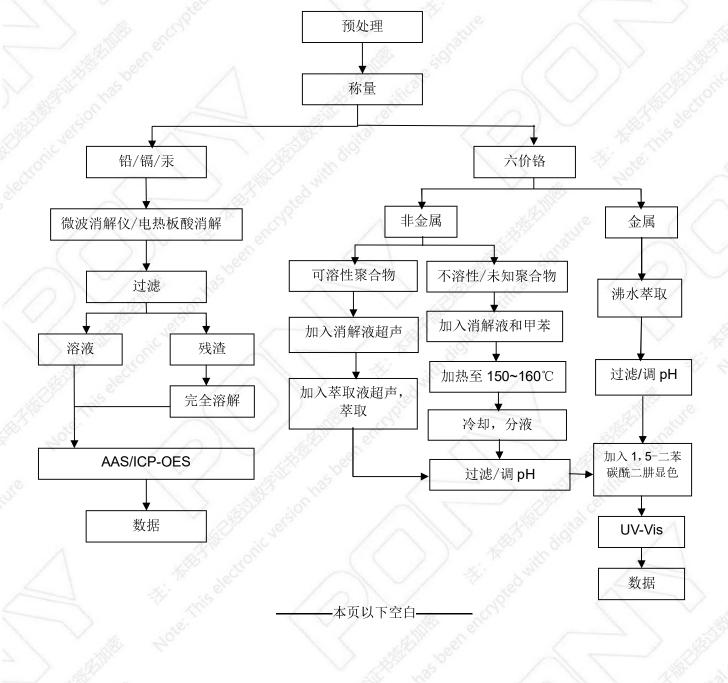
第3页,共7页



测试报告 NO.: BRCWUUVB3047967D1

第4页,共7页

样品按照下述流程被完全消解(六价铬除外)。



测试流程图

 ① Hotline 400-819-5688
 谱尼测试集团上海有限公司

 www.ponytest.com
 公司地址:上海市松江区施园路 288 号1幢4层A区
 电话: 021-64851999

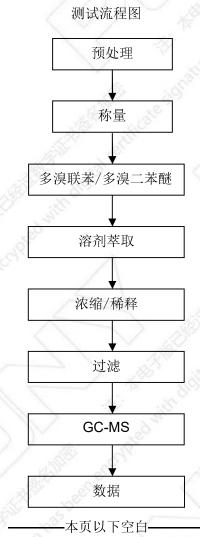
 PONY-SHBG056-02C-001-2022A
 测试地址:上海市松江区施园路 288 号1幢4层A区
 电话: 021-64851999



测试报告 NO.: BRCWUUVB3047967D1



第5页,共7页



 ② Hotline 400-819-5688
 谱尼测试集团上海有限公司

 www.ponytest.com
 公司地址:上海市松江区施园路 288 号 1 幢 4 层 A 区 电话: 021-64851999

 PONY-SHBG056-02C-001-2022A
 测试地址:上海市松江区施园路 288 号

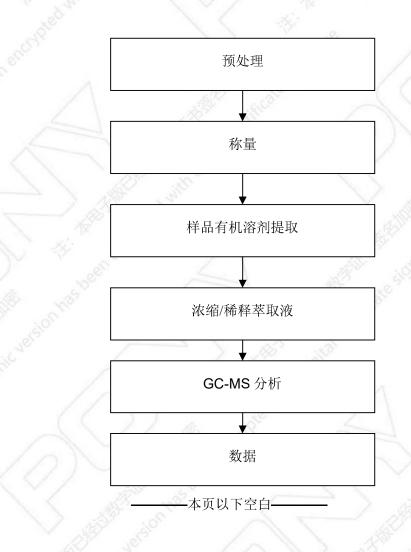




测试报告 NO.: BRCWUUVB3047967D1

邻苯二甲酸酯类测试流程

第6页,共7页



 ① Hotline 400-819-5688
 谱尼测试集团上海有限公司

 www.ponytest.com
 公司地址:上海市松江区施园路 288 号1幢4层A区
 电话: 021-64851999

 PONY-SHBG056-02C-001-2022A
 测试地址:上海市松江区施园路 288 号1幢4层A区
 电话: 021-64851999

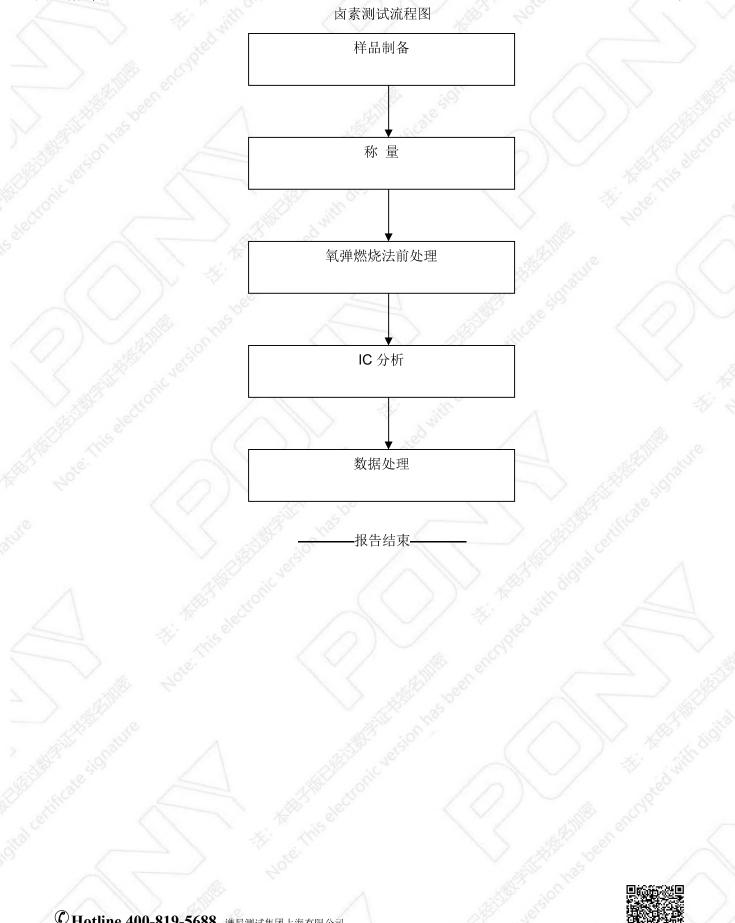






测试报告 NO.: BRCWUUVB3047967D1

第7页,共7页



 ① Hotline 400-819-5688
 谱尼测试集团上海有限公司

 WWW.ponytest.com
 公司地址:上海市松江区施园路 288 号 1 幢 4 层 A 区 电话: 021-64851999

 PONY-SHBG056-02C-001-2022A
 测试地址:上海市松江区施园路 288 号

