

#### **Test Report**

號碼(No.): ETR22C03341

日期(Date): 22-Dec-2022

頁數(Page):1 of 28

長春人造樹脂廠股份有限公司 (CHANG CHUN PLASTICS CO., LTD.)

長春化工(漳州)有限公司 (CHANG CHUN CHEMICAL (ZHANGZHOU) CO., LTD.)

長春化工(江蘇)有限公司 (CHANG CHUN CHEMICAL (JIANGSU) CO., LTD.)

104-83 台灣台北市松江路301號7樓 (7TH FLOOR, NO. 301, SONGJIANG RD., ZHONGSHAN DISTRICT 10483, TAIPEI, TAIWAN)

applicant as) :		(The following sample(s) was/were submitted and identified by the
送樣廠商(Sample Submitted By) 樣品名稱(Sample Name)	:	長春人造樹脂廠股份有限公司 (CHANG CHUN PLASTICS CO., LTD.) POLYBUTYLENE TEREPHTHALATE (PBT)
樣品型號(Style/Item No.)	:	PBT(4108,4108F,4115,4115F,4120,4130,4130F,4140,4615,4620,4630,4730,4810M, 4815,4820,4830,4840,4815G,4820G,4830G,4330G,4315,4315F,4330F,4330R,4130 R,4130E,4830E,4830S,4830F,4815F,V4130,V4815G,V4820G,V4830G,4130RB)
收件日(Sample Receiving Date) 測試期間(Testing Period)	:	15-Dec-2022 15-Dec-2022 to 22-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)	依據客戶指定‧測試 PAHs 及其他測項。 (As specified by client, to test PAHs and other item(s).)
測試結果(Test Results) :		請參閱下一頁 (Please refer to following pages.)
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.)
	(2)	根據客戶所提供的樣品 · 多環芳香烴測試結果符合德國產品安全委員會(AfPS) GS PAHs第 2 類「供14歲以下兒童使用的產品」之限值要求。(Based upon the performed tests on the submitted sample(s), the test results of PAHs (15 items) comply with the limits of PAHs requirement (Category 2)「Use by children under 14」 as set by German Committee on Product Safety (AfPS) GS PAHs.)



PIN CODE: 24F19878

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

Troy Chang / Department Malager Signed for and on behalf

Chemical Laboratory - Taipei

SĞS TAIWAN LTD.



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長春人造樹脂廠股份有限公司 (CHANG CHUN PLASTICS CO., LTD.) 長春化工(漳州)有限公司 (CHANG CHUN CHEMICAL (ZHANGZHOU) CO., LTD.) 長春化工(江蘇)有限公司 (CHANG CHUN CHEMICAL (JIANGSU) CO.,LTD.) 104-83 台灣台北市松江路301號7樓 (7TH FLOOR, NO. 301, SONGJIANG RD., ZHONGSHAN DISTRICT 10483, TAIPEI, TAIWAN)

#### 測試部位敘述 (Test Part Description)

No.1 : 白色塑膠粒 (WHITE PLASTIC PELLETS)

#### 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				
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)	62321-5: 2013, analysis was performed	mg/kg	2	8.68	1000
	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				
	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)	參考IEC 62321-6: 2015 · 以氣相層析儀/質	mg/kg	5	n.d.	-
五溴聯苯 (Pentabromobiphenyl)	参考IEC 02321-0.2015,以照相層机限/頁 譜儀分析。(With reference to IEC 62321-	mg/kg	5	n.d.	-
六溴聯苯 (Hexabromobiphenyl)	-	mg/kg	5	n.d.	-
七溴聯苯 (Heptabromobiphenyl)	6: 2015, 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.	1000

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104-83 台灣台北市松江路301號7樓 (7TH FLOOR, NO. 301, SONGJIANG RD., ZHONGSHAN DISTRICT 10483, TAIPEI, 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)	參考IEC 62321-6: 2015 · 以氣相層析儀/質	mg/kg	5	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)	参考IEC 62321-6.2015 · 以氣相層が展/員 譜儀分析。(With reference to IEC 62321-	mg/kg	5	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)	音 限力 初 <sup>-1</sup> (With reference to fee 62521- 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)		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.	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)	<u> </u>				
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl	參考IEC 62321-8: 2017,以氣相層析儀/質 譜儀分析。(With reference to IEC 62321-	mg/kg	50	n.d.	1000
phthalate (DIBP)) (CAS No.: 84-69-5)	音 酸力 初。(With reference to fee 62521- 8: 2017, analysis was performed by				
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl	GC/MS.)	mg/kg	50	n.d.	-
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.	-
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)					

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長春人造樹脂廠股份有限公司 (CHANG CHUN PLASTICS CO., LTD.) 長春化工(漳州)有限公司 (CHANG CHUN CHEMICAL (ZHANGZHOU) CO., LTD.) 長春化工(江蘇)有限公司 (CHANG CHUN CHEMICAL (JIANGSU) CO., LTD.) 104-83 台灣台北市松江路301號7樓 (7TH FLOOR, NO. 301, SONGJIANG RD., ZHONGSHAN DISTRICT 10483, TAIPEI, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
多環芳香烴 (Polycyclic Aromatic					
Hydrocarbons) (PAHs)					
苯駢(a)芘 (Benzo[a]pyrene) (CAS No.: 50-32-8)		mg/kg	0.2	n.d.	Δ
,			0.2	in d	^
苯駢(e)芘 (Benzo[e]pyrene) (CAS No.: 192-97-2)		mg/kg	0.2	n.d.	Δ
苯駢蔥 (Benzo[a]anthracene) (CAS No.:		mg/kg	0.2	n.d.	Δ
56-55-3)					
苯(b)苯駢芴 (Benzo[b]fluoranthene)		mg/kg	0.2	n.d.	Δ
(CAS No.: 205-99-2)					
苯(j)苯駢芴 (Benzo[j]fluoranthene) (CAS		mg/kg	0.2	n.d.	Δ
No.: 205-82-3)					
苯(k)苯駢芴 (Benzo[k]fluoranthene)		mg/kg	0.2	n.d.	Δ
(CAS No.: 207-08-9)	參考AfPS GS 2019:01 PAK · 以氣相層析儀				
䓛 (Chrysene) (CAS No.: 218-01-9)	/質譜儀分析。(With reference to AfPS GS	mg/kg	0.2	n.d.	Δ
二苯駢蒽 (Dibenzo[a,h]anthracene)	2019:01 PAK, analysis was performed by	mg/kg	0.2	n.d.	Δ
(CAS No.: 53-70-3)	GC/MS.)				
苯駢荘 (Benzo[g,h,i]perylene) (CAS No.:		mg/kg	0.2	n.d.	Δ
191-24-2)					
茚酮芘 (Indeno[1,2,3-c,d]pyrene) (CAS		mg/kg	0.2	n.d.	Δ
No.: 193-39-5)					
蒽 (Anthracene) (CAS No.: 120-12-7)		mg/kg	0.2	n.d.	Δ
苯駢芴 (Fluoranthene) (CAS No.: 206-		mg/kg	0.2	n.d.	Δ
44-0)					
菲 (Phenanthrene) (CAS No.: 85-01-8)		mg/kg	0.2	n.d.	Δ
芘 (Pyrene) (CAS No.: 129-00-0)		mg/kg	0.2	n.d.	Δ
萘 (Naphthalene) (CAS No.: 91-20-3)		mg/kg	0.2	n.d.	Δ
多環芳香烴15項總和 (Sum of 15 PAHs)		mg/kg	-	n.d.	Δ

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
(::::::::;)	(includy)	(01110)		No.1	()
苊烯 (Acenaphthylene) (CAS No.: 208-	參考AfPS GS 2019:01 PAK · 以氣相層析儀	mg/kg	0.2	n.d.	-
96-8)	/質譜儀分析。(With reference to AfPS GS				
苊 (Acenaphthene) (CAS No.: 83-32-9)	2019:01 PAK, analysis was performed by	mg/kg	0.2	n.d.	-
芴 (Fluorene) (CAS No.: 86-73-7)	GC/MS.)	mg/kg	0.2	n.d.	-
六溴環十二烷及所有主要被辨別出的異構	參考IEC 62321: 2008 · 以氣相層析儀/質譜	mg/kg	5	n.d.	-
物(HBCDD) (α- HBCDD, β- HBCDD, γ-	儀分析。(With reference to IEC 62321:				
HBCDD) (Hexabromocyclododecane	2008, analysis was performed by				
(HBCDD) and all major	GC/MS.)				
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RSTS-E&E-121 · 以液相層析儀/質譜	mg/kg	10	n.d.	-
(Tetrabromobisphenol A (TBBP-A))	儀分析。(With reference to RSTS-E&E-				
(CAS No.: 79-94-7)	121, analysis was performed by LC/MS.)				
紅磷 (Red Phosphorus)	以熱裂解-氣相層析儀/質譜儀分析。	**	-	Negative	-
	(Analysis was performed by Pyrolyzer-				
	GC/MS.)				

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測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
全氟丁酸 (PFBA) (Perfluorobutane Acid	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
(PFBA)) (CAS No.: 375-22-4)	聯質譜儀分析。(With reference to				
	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟丁磺酸 (PFBS) (Perfluorobutane	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
Sulfonate (PFBS)) (CAS No.: 375-73-5)	聯質譜儀分析。(With reference to				
	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟丁基磺酸鉀 (PFBS-K )	由全氟丁磺酸測試結果計算得之。	mg/kg	0.01	n.d.	-
(Perfluorobutane Sulfonate K-salt	(Calculated from the result of PFBS.)				
(PFBS-K )) (CAS No.: 29420-49-3)					
全氟丁基磺酸氟 (PFBS-F)	由全氟丁磺酸測試結果計算得之。	mg/kg	0.01	n.d.	-
(Perfluorobutane sulfonyl fluoride	(Calculated from the result of PFBS.)				
(PFBS-F)) (CAS No.: 375-72-4)					
全氟丁基磺酸四乙基銨 (PFBS-	由全氟丁磺酸測試結果計算得之。	mg/kg	0.01	n.d.	-
N(CH3CH2)4) (Tetraethylammonium	(Calculated from the result of PFBS.)				
perfluorobutanesulfonate (PFBS-					
N(CH3CH2)4)) (CAS No.: 25628-08-4)					
	參考CEN/TS 15968: 2010,以液相層析串	mg/kg	0.01	n.d.	-
(PFPA)) (CAS No.: 2706-90-3)	聯質譜儀分析。(With reference to				
	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟已酸 (PFHxA) (Perfluorohexane	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
Acid (PFHxA)) (CAS No.: 307-24-4)	聯質譜儀分析。(With reference to				
	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟已酸銨 (PFHxA-NH4) (Ammonium	由全氟已酸測試結果計算得之。	mg/kg	0.01	n.d.	-
perfluorohexanoate (PFHxA-NH4))	(Calculated from the result of PFHxA.)				
(CAS No.: 21615-47-4)					

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



### **Test Report**

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長春人造樹脂廠股份有限公司 (CHANG CHUN PLASTICS CO., LTD.) 長春化工(漳州)有限公司 (CHANG CHUN CHEMICAL (ZHANGZHOU) CO., LTD.) 長春化工(江蘇)有限公司 (CHANG CHUN CHEMICAL (JIANGSU) CO.,LTD.) 104-83 台灣台北市松江路301號7樓 (7TH FLOOR, NO. 301, SONGJIANG RD., ZHONGSHAN DISTRICT 10483, TAIPEI, TAIWAN)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
全氟己基碘 (PFHxI) (Perfluorohexyl	參考CEN/TS 15968: 2010 · 以氣相層析儀/	mg/kg	1	n.d.	-
iodide (PFHxI)) (CAS No.: 355-43-1)	質譜儀分析。(With reference to CEN/TS				
	15968: 2010, analysis was performed by				
	GC/MS.)				
全氟己基乙烯 (PFHxE) (Perfluorohexyl	參考CEN/TS 15968: 2010 · 以氣相層析儀/	mg/kg	1	n.d.	-
ethylene (PFHxE)) (CAS No.: 25291-17-	質譜儀分析。(With reference to CEN/TS				
2)	15968: 2010, analysis was performed by				
	GC/MS.)				
1H,1H,2H,2H-全氟辛基碘 (6_2FOI)	參考CEN/TS 15968: 2010,以氣相層析儀/	mg/kg	0.1	n.d.	-
(1H,1H,2H,2H-Perfluorooctyl iodide	質譜儀分析。(With reference to CEN/TS				
(6_2FOI)) (CAS No.: 2043-57-4)	15968: 2010, analysis was performed by				
		4	0.1		
1H,1H,2H,2H-全氟-1-辛醇 (6:2 FTOH)	參考CEN/TS 15968: 2010 · 以氣相層析儀/	mg/kg	0.1	n.d.	-
(1H,1H,2H,2H-Perfluoro-1-octanol	質譜儀分析。(With reference to CEN/TS				
(6:2FTOH)) (CAS No.: 647-42-7)	15968: 2010, analysis was performed by				
	GC/MS.) 參考CEN/TS 15968: 2010 · 以氣相層析儀/	malka	0.1	n.d.	
1H,1H,2H,2H-全氟辛基丙烯酸酯 (6:2 FTA) (1H,1H,2H,2H-	参ちCEN/TS 15966. 2010 · 以氣伯層が展/ 質譜儀分析。(With reference to CEN/TS	mg/kg	0.1	n.u.	-
Perfluorooctylacrylate (6:2FTA)) (CAS	頁 a 展 万 初 <sup>-3</sup> (With relefence to CEN/15 15968: 2010, analysis was performed by				
No.: 17527-29-6)	GC/MS.)				
1H,1H,2H,2H-2氟辛基甲基丙烯酸酯	参考CEN/TS 15968: 2010 · 以氣相層析儀/	mg/kg	0.1	n.d.	_
(6_2 FTMAC) (1H,1H,2H,2H-	質譜儀分析。(With reference to CEN/TS	шу/ку	0.1	n.u.	
perfluorooctyl methacrylate (6_2	15968: 2010, analysis was performed by				
FTMAC)) (CAS No.: 2144-53-8)	GC/MS.)				
1H,1H,2H,2H-全氟辛磺酸 (H4PFOS 6:2)	参考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	_
(1H,1H,2H,2H-	聯質譜儀分析。(With reference to		0.01	11.0.	
Perfluorooctanesulphonic Acid	CEN/TS 15968: 2010, analysis was				
(H4PFOS 6:2)) (CAS No.: 27619-97-2)	performed by LC/MS/MS.)				

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長春人造樹脂廠股份有限公司 (CHANG CHUN PLASTICS CO., LTD.) 長春化工(漳州)有限公司 (CHANG CHUN CHEMICAL (ZHANGZHOU) CO., LTD.) 長春化工(江蘇)有限公司 (CHANG CHUN CHEMICAL (JIANGSU) CO.,LTD.) 104-83 台灣台北市松江路301號7樓 (7TH FLOOR, NO. 301, SONGJIANG RD., ZHONGSHAN DISTRICT 10483, TAIPEI, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟己基磺酸及其鹽類 (PFHxS) (Perfluorohexane-1-sulphonic acid and its salts (PFHxS)) (CAS No.: 355-46-4)	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.	-
全氟己基磺酸鈉 (PFHxS-Na) (Perfluorohexanesulfonate NA-salt (PFHxS-Na)) (CAS No.: 82382-12-5)	由全氟己基磺酸測試結果計算得之。 (Calculated from the result of PFHxS.)	mg/kg	0.01	n.d.	-
全氟己基磺酸鉀 (PFHxS-K) (Perfluorohexanesulfonate K-salt (PFHxS-K)) (CAS No.: 3871-99-6)	由全氟己基磺酸測試結果計算得之。 (Calculated from the result of PFHxS.)	mg/kg	0.01	n.d.	-
全氟己基磺酸胺 (PFHxS-NH4) (Perfluorohexanesulfonate ammonium salt (PFHxS-NH4)) (CAS No.: 68259-08-5)	由全氟己基磺酸測試結果計算得之。 (Calculated from the result of PFHxS.)	mg/kg	0.01	n.d.	-
全氟己基磺酸鋰 (PFHxS-Li) (Perfluorohexanesulfonate Li-salt (PFHxS-Li)) (CAS No.: 55120-77-9)	由全氟己基磺酸測試結果計算得之。 (Calculated from the result of PFHxS.)	mg/kg	0.01	n.d.	-
全氟己基磺酸鋅 (PFHxS-Zn) (Perfluorohexanesulfonate Zn-salt (PFHxS-Zn)) (CAS No.: 70136-72-0)	由全氟己基磺酸測試結果計算得之。 (Calculated from the result of PFHxS.)	mg/kg	0.01	n.d.	-
全氟己基磺醯氟 (PFHxS-F) (Perfluorohexanesulfonate sulfonyl fluoride (PFHxS-F)) (CAS No.: 423-50-7)	由全氟己基磺酸測試結果計算得之。 (Calculated from the result of PFHxS.)	mg/kg	0.01	n.d.	-
全氟庚酸 (PFHpA) (Perfluoroheptane Acid (PFHpA)) (CAS No.: 375-85-9)	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.	-
7H-十二氟庚酸 (HPFHpA) (7H- Dodecanefluoroheptane Acid (HPFHpA)) (CAS No.: 1546-95-8)	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.	-

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長春人造樹脂廠股份有限公司 (CHANG CHUN PLASTICS CO., LTD.) 長春化工(漳州)有限公司 (CHANG CHUN CHEMICAL (ZHANGZHOU) CO., LTD.) 長春化工(江蘇)有限公司 (CHANG CHUN CHEMICAL (JIANGSU) CO.,LTD.) 104-83 台灣台北市松江路301號7樓 (7TH FLOOR, NO. 301, SONGJIANG RD., ZHONGSHAN DISTRICT 10483, TAIPEI, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟庚基磺酸 (PFHpS) (Perfluoroheptane Sulfonate (PFHpS)) (CAS No.: 375-92-8)	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.	-
全氟庚基磺酸鈉 (PFHpS-Na) (Perfluoroheptanesulfonate Na-salt (PFHpS-Na)) (CAS No.: 68555-66-8)	由全氟庚基磺酸測試結果計算得之。 (Calculated from the result of PFHpS.)	mg/kg	0.01	n.d.	-
全氟辛烷磺酸 (PFOS) (Perfluorooctane sulfonates (PFOS)) (CAS No.: 1763-23- 1)	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.	-
全氟辛基磺酸鉀 (PFOS-K) (Potassium Perfluorooctanesulfonate (PFOS-K)) (CAS No.: 2795-39-3)	由全氟辛烷磺酸測試結果計算得之。 (Calculated from the result of PFOS.)	mg/kg	0.01	n.d.	-
全氟辛基磺酸鋰 (PFOS-Li) (Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)) (CAS No.: 29457-72-5)	由全氟辛烷磺酸測試結果計算得之。 (Calculated from the result of PFOS.)	mg/kg	0.01	n.d.	-
全氟辛基磺酸銨 (PFOS-NH4) (Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH4)) (CAS No.: 29081-56-9)	由全氟辛烷磺酸測試結果計算得之。 (Calculated from the result of PFOS.)	mg/kg	0.01	n.d.	-
全氟辛基磺酸二乙醇銨 (PFOS-NH(OH)2) (Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH)2)) (CAS No.: 70225-14-8)	由全氟辛烷磺酸測試結果計算得之。 (Calculated from the result of PFOS.)	mg/kg	0.01	n.d.	-
全氟辛基磺酸四乙基銨 (PFOS-N(C2H5)4) (Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS- N(C2H5)4)) (CAS No.: 56773-42-3)	由全氟辛烷磺酸測試結果計算得之。 (Calculated from the result of PFOS.)	mg/kg	0.01	n.d.	-

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



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長春人造樹脂廠股份有限公司 (CHANG CHUN PLASTICS CO., LTD.) 長春化工(漳州)有限公司 (CHANG CHUN CHEMICAL (ZHANGZHOU) CO., LTD.) 長春化工(江蘇)有限公司 (CHANG CHUN CHEMICAL (JIANGSU) CO.,LTD.) 104-83 台灣台北市松江路301號7樓 (7TH FLOOR, NO. 301, SONGJIANG RD., ZHONGSHAN DISTRICT 10483, TAIPEI, TAIWAN)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
全氟辛基磺酸二癸二甲基銨 (PFOS-DDA)	由全氟辛烷磺酸測試結果計算得之。	mg/kg	0.01	n.d.	-
	(Calculated from the result of PFOS.)				
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-					
heptadecafluorooctane-1-sulfonate					
(PFOS-DDA)) (CAS No.: 251099-16-8) 全氟辛基磺醯氟 (POSF) (Perfluorooctane	山仝氣立煌磺酸測試結甲計質得力。	mg/kg	0.01	n.d.	
sulfonyl fluoride (POSF) (CAS No.: 307-		тту/ку	0.01	n.u.	-
35-7)	(Calculated norm the result of PrOS.)				
全氟辛基磺酸鎂 (PFOS-Mg)	由全氟辛烷磺酸測試結果計算得之。	mg/kg	0.01	n.d.	-
(Perfluorooctanesulfonic acid,	(Calculated from the result of PFOS.)				
magnesium salt (PFOS-Mg)) (CAS No.:					
91036-71-4)					
全氟辛基磺酸鈉 (PFOS-Na)	由全氟辛烷磺酸測試結果計算得之。	mg/kg	0.01	n.d.	-
(Perfluorooctanesulfonic acid, sodium	(Calculated from the result of PFOS.)				
salt (PFOS-Na)) (CAS No.: 4021-47-0)					
N-乙基全氟正辛磺醯胺 (EtFOSA) (N-	參考CEN/TS 15968: 2010,以液相層析串	mg/kg	0.01	n.d.	-
ethylperfluoro-1-octanesulfonamide	聯質譜儀分析。(With reference to				
(EtFOSA)) (CAS No.: 4151-50-2)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)	(1	0.01		
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	mg/kg	0.01	n.d.	-
(N-Methyl-Perfluoroctanesulfonamide	聯質譜儀分析。(With reference to				
(N-Me-FOSA)) (CAS No.: 31506-32-8)	CEN/TS 15968: 2010, analysis was				
N-乙基全氟辛基磺醯胺乙醇 (N-Et-FOSE	performed by LC/MS/MS.) 參考CEN/TS 15968: 2010,以液相層析串	mg/kg	0.01	n.d.	
alcohol) (N-Ethyl-	影質譜儀分析。(With reference to	шу/ку	0.01	n.u.	-
Perfluoroctanesulfonamidoethanol (N-Et-	小貝面 展 万 小 <sup>1</sup> (With reference to CEN/TS 15968: 2010, analysis was				
FOSE alcohol)) (CAS No.: 1691-99-2)	-				
FOSE alconol)) (CAS NO., 1031-33-2)	performed by LC/MS/MS.)				

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長春人造樹脂廠股份有限公司 (CHANG CHUN PLASTICS CO., LTD.) 長春化工(漳州)有限公司 (CHANG CHUN CHEMICAL (ZHANGZHOU) CO., LTD.) 長春化工(江蘇)有限公司 (CHANG CHUN CHEMICAL (JIANGSU) CO.,LTD.) 104-83 台灣台北市松江路301號7樓 (7TH FLOOR, NO. 301, SONGJIANG RD., ZHONGSHAN DISTRICT 10483, TAIPEI, TAIWAN)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
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	mg/kg	0.01	n.d.	-
alcohol) (N-Methyl-	聯質譜儀分析。(With reference to				
Perfluoroctanesulfonamidoethanol (N-	CEN/TS 15968: 2010, analysis was				
Me-FOSE alcohol)) (CAS No.: 24448-	performed by LC/MS/MS.)				
09-7)					
全氟辛基磺醯胺 (PFOSA)	參考CEN/TS 15968: 2010,以液相層析串	mg/kg	0.01	n.d.	-
(Perfluoroctanesulfonamide (PFOSA))	聯質譜儀分析。(With reference to				
(CAS No.: 754-91-6)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟辛酸(PFOA) (Perfluorooctanoic	參考CEN/TS 15968: 2010,以液相層析串	mg/kg	0.01	n.d.	-
Acid (PFOA)) (CAS No.: 335-67-1)	聯質譜儀分析。(With reference to				
	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟辛酸鈉 (PFOA-Na ) (Sodium	由全氟辛酸測試結果計算得之。	mg/kg	0.01	n.d.	-
perfluorooctanoate (PFOA-Na )) (CAS	(Calculated from the result of PFOA.)				
No.: 335-95-5)					
全氟辛酸鉀 (PFOA-K) (Potassium	由全氟辛酸測試結果計算得之。	mg/kg	0.01	n.d.	-
perfluorooctanoate (PFOA-K)) (CAS	(Calculated from the result of PFOA.)				
No.: 2395-00-8)					
全氟辛酸銀 (PFOA-Ag ) (Silver	由全氟辛酸測試結果計算得之。	mg/kg	0.01	n.d.	-
perfluorooctanote (PFOA-Ag)) (CAS	(Calculated from the result of PFOA.)	5, 5			
No.: 335-93-3)	, , , , , , , , , , , , , , , , , , ,				
全氟辛氟 (PFOA-F) (Perfluorooctanoyl	由全氟辛酸測試結果計算得之。	mg/kg	0.01	n.d.	_
fluoride (PFOA-F)) (CAS No.: 335-66-0)	(Calculated from the result of PFOA.)	و بر			
全氟辛酸銨 (APFO) (Ammonium	由全氟辛酸測試結果計算得之。	mg/kg	0.01	n.d.	_
pentadecafluorooctanoate (APFO))	(Calculated from the result of PFOA.)		J.J.		
(CAS No.: 3825-26-1)					
	<u> </u>			I	

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長春人造樹脂廠股份有限公司 (CHANG CHUN PLASTICS CO., LTD.) 長春化工(漳州)有限公司 (CHANG CHUN CHEMICAL (ZHANGZHOU) CO., LTD.) 長春化工(江蘇)有限公司 (CHANG CHUN CHEMICAL (JIANGSU) CO.,LTD.) 104-83 台灣台北市松江路301號7樓 (7TH FLOOR, NO. 301, SONGJIANG RD., ZHONGSHAN DISTRICT 10483, TAIPEI, TAIWAN)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
1H,1H,2H,2H-全氟癸磺酸 (8:2 FTS)	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
(1H,1H,2H,2H-Perfluorodecanesulfonic	聯質譜儀分析。(With reference to				
acid (8:2 FTS)) (CAS No.: 39108-34-4)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟辛酸甲酯 (Me-PFOA) (Methyl	參考CEN/TS 15968: 2010 · 以氣相層析儀/	mg/kg	0.1	n.d.	-
perfluorooctanoate (Me-PFOA)) (CAS	質譜儀分析。(With reference to CEN/TS				
No.: 376-27-2)	15968: 2010, analysis was performed by				
	GC/MS.)				
全氟辛酸乙酯 (Et-PFOA) (Ethyl	參考CEN/TS 15968: 2010,以氣相層析儀/	mg/kg	0.1	n.d.	-
perfluorooctanoate (Et-PFOA)) (CAS	質譜儀分析。(With reference to CEN/TS				
No.: 3108-24-5)	15968: 2010, analysis was performed by				
	GC/MS.)				
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH)	參考CEN/TS 15968: 2010,以氣相層析儀/	mg/kg	0.1	n.d.	-
	質譜儀分析。(With reference to CEN/TS				
FTOH)) (CAS No.: 678-39-7)	15968: 2010, analysis was performed by				
	GC/MS.)		0.1	un al	
1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2	參考CEN/TS 15968: 2010,以氣相層析儀/	mg/kg	0.1	n.d.	-
FTA) (1H,1H,2H,2H-Perfluorodecyl	質譜儀分析。(With reference to CEN/TS				
acrylate (8:2 FTA)) (CAS No.: 27905-45-	15968: 2010, analysis was performed by				
9) 1H,1H,2H,2H-全氟癸基甲基丙烯酸鹽 (8:2	GC/MS.) 參考CEN/TS 15968: 2010 · 以氣相層析儀/	mg/kg	0.1	n.d.	_
FTMA) (1H,1H,2H,2H-Perfluorodecyl	質譜儀分析。(With reference to CEN/TS	шу/ку	0.1	n.u.	_
methacrylate (8:2 FTMA)) (CAS No.:	15968: 2010, analysis was performed by				
1996-88-9)	GC/MS.)				
1350-88-5) 全氟辛基碘烷 (PFOI) (Perfluoro-1-	參考CEN/TS 15968: 2010 · 以氣相層析儀/	mg/kg	0.1	n.d.	_
	質譜儀分析。(With reference to CEN/TS	ing/ing	0.1	11.01.	
	15968: 2010, analysis was performed by				
	GC/MS.)				
			L	<u> </u>	

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測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
全氟壬酸 (PFNA) (Perfluorononan-1-oic	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
acid (PFNA)) (CAS No.: 375-95-1)	聯質譜儀分析。(With reference to				
	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟壬酸鈉 (PFNA-Na)	由全氟壬酸測試結果計算得之。	mg/kg	0.01	n.d.	-
(Perfluorononanoate NA-Salt (PFNA-	(Calculated from the result of PFNA.)				
Na)) (CAS No.: 21049-39-8)					
全氟壬酸銨 (APFN) (Perfluorononanoate	由全氟壬酸測試結果計算得之。	mg/kg	0.01	n.d.	-
ammounium salt (APFN)) (CAS No.:	(Calculated from the result of PFNA.)				
4149-60-4)					
全氟-3,7-二甲基辛酸 (PF-3,7-DMOA)	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
(Perfluoro-3,7-dimethyloctanoic Acid	聯質譜儀分析。(With reference to				
(PF-3,7-DMOA)) (CAS No.: 172155-07-	CEN/TS 15968: 2010, analysis was				
6)	performed by LC/MS/MS.)				
全氟癸酸 (PFDA)	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
	聯質譜儀分析。(With reference to				
(CAS No.: 335-76-2)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟癸酸鈉 (PFDA-Na)	由全氟癸酸測試結果計算得之。	mg/kg	0.01	n.d.	-
(Perfluorodecanoate Na-salt (PFDA-	(Calculated from the result of PFDA.)				
Na)) (CAS No.: 3830-45-3)					
全氟癸酸銨 (APFDA)	由全氟癸酸測試結果計算得之。	mg/kg	0.01	n.d.	-
(Perfluorodecanoate ammonium salt	(Calculated from the result of PFDA.)				
(APFDA)) (CAS No.: 3108-42-7)					
全氟十一烷酸 (PFUnDA)	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
(Henicosafluoroundecanoic acid	聯質譜儀分析。(With reference to				
(PFUnDA)) (CAS No.: 2058-94-8)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



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測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
全氟十二烷酸 (PFDoDA)	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
(Tricosafluorododecanoic acid	聯質譜儀分析。(With reference to				
(PFDoDA)) (CAS No.: 307-55-1)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟十二烷酸銨 (APFDoDA)	由全氟十二烷酸測試結果計算得之。	mg/kg	0.01	n.d.	-
(Ammonium Perfluorododecanoate	(Calculated from the result of PFDoDA.)				
(APFDoDA)) (CAS No.: 3793-74-6)					
全氟癸烷磺酸 (PFDS) (Perfluorodecane	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
Sulfonate (PFDS)) (CAS No.: 126105-	聯質譜儀分析。(With reference to				
34-8/ 335-77-3)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟癸烷磺酸鈉 (PFDS-Na)	由全氟癸烷磺酸測試結果計算得之。	mg/kg	0.01	n.d.	-
(Perfluorodecanesulfonate Na-salt	(Calculated from the result of PFDS.)				
(PFDS-Na)) (CAS No.: 2806-15-7)					
全氟癸烷磺酸鉀 (PFDS-K)	由全氟癸烷磺酸測試結果計算得之。	mg/kg	0.01	n.d.	-
(Perfluorodecanesulfonate K-salt	(Calculated from the result of PFDS.)				
(PFDS-K)) (CAS No.: 2806-16-8)					
全氟癸基磺酸銨 (PFDS-NH4)	由全氟癸烷磺酸測試結果計算得之。	mg/kg	0.01	n.d.	-
	(Calculated from the result of PFDS.)				
of NH4 (PFDS-NH4)) (CAS No.: 67906-					
42-7)					
全氟十三烷酸 (PFTrDA)	參考CEN/TS 15968: 2010,以液相層析串	mg/kg	0.01	n.d.	-
(Pentacosafluorotridecanoic acid	聯質譜儀分析。(With reference to				
(PFTrDA)) (CAS No.: 72629-94-8)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟十四烷酸 (PFTDA)	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
(Heptacosafluorotetradecanoic acid	聯質譜儀分析。(With reference to				
(PFTDA)) (CAS No.: 376-06-7)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				

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測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
全氟十六烷酸 (PFHxDA,C16)	參考CEN/TS 15968: 2010,以液相層析串	mg/kg	0.01	n.d.	-
(Hexadecanoic acid, hentriacontafluoro	聯質譜儀分析。(With reference to				
(PFHxDA,C16)) (CAS No.: 67905-19-5)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟十八烷酸 (PFODA,C18)	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
(Octadecanoic acid,	聯質譜儀分析。(With reference to				
pentatriacontafluoro (PFODA,C18))	CEN/TS 15968: 2010, analysis was				
(CAS No.: 16517-11-6)	performed by LC/MS/MS.)				
1H,1H,2H,2H-全氟十二烷基丙烯酸酯	參考CEN/TS 15968: 2010 · 以氣相層析儀/	mg/kg	0.1	n.d.	-
(10:2 FTA) (1H,1H,2H,2H-	質譜儀分析。(With reference to CEN/TS				
Perfluorododecylacrylate (10:2FTA))	15968: 2010, analysis was performed by				
(CAS No.: 17741-60-5)	GC/MS.)				
1H,1H,2H,2H-全氟-1-十二醇 (10:2	參考CEN/TS 15968: 2010 · 以氣相層析儀/	mg/kg	0.1	n.d.	-
FTOH) (1H,1H,2H,2H-Perfluoro-1-	質譜儀分析。(With reference to CEN/TS				
dodecanol (10:2FTOH)) (CAS No.: 865-	15968: 2010, analysis was performed by				
86-1)	GC/MS.)				
2H,2H-全氟癸酸 (H2PFDA) (2H,2H-	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
Perfluorodecane Acid (H2PFDA)) (CAS	聯質譜儀分析。(With reference to				
No.: 27854-31-5;882489-14-7)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
2H,2H,3H,3H-全氟癸酸(4HPFUnA)	參考CEN/TS 15968: 2010,以液相層析串	mg/kg	0.01	n.d.	-
(2H,2H,3H,3H-Perfluoroundecanoic	聯質譜儀分析。(With reference to				
Acid (4HPFUnA)) (CAS No.: 34598-33-	CEN/TS 15968: 2010, analysis was				
9)	performed by LC/MS/MS.)				
1H,1H,2H,2H-全氟-1-己醇 (4:2 FTOH)	參考CEN/TS 15968: 2010,以氣相層析儀/	mg/kg	0.1	n.d.	-
(1H,1H,2H,2H-Perfluoro-1-hexanol	質譜儀分析。(With reference to CEN/TS				
(4:2FTOH)) (CAS No.: 2043-47-2)	15968: 2010, analysis was performed by				
	GC/MS.)				

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測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)	nit) (Result)		(Limit)
				No.1	
1H,1H,2H,2H-全氟癸基碘 (8_2 FTI)	參考CEN/TS 15968: 2010 · 以氣相層析儀/	mg/kg	0.1	n.d.	-
(1H,1H,2H,2H-Perfluorodecyl iodide	質譜儀分析。(With reference to CEN/TS				
(8_2 FTI)) (CAS No.: 2043-53-0)	15968: 2010, analysis was performed by				
	GC/MS.)				
2,3,3,3-四氟-2-(七氟丙氧基)丙酸 (HFPO-	參考CEN/TS 15968: 2010,以液相層析串	mg/kg	0.01	n.d.	-
DA) (2,3,3,3-Tetrafluoro-2-	聯質譜儀分析。(With reference to				
(heptafluoropropoxy)propionic acide	CEN/TS 15968: 2010, analysis was				
(HFPO-DA)) (CAS No.: 13252-13-6)	performed by LC/MS/MS.)				
1H,1H,2H,2H-全氟己磺酸 (4:2 FTS)	參考CEN/TS 15968: 2010,以液相層析串	mg/kg	0.01	n.d.	-
• • • •	聯質譜儀分析。(With reference to				
Acid (4:2 FTS)) (CAS No.: 757124-72-4)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)		0.01		
全氟辛烷磺酰胺乙酸 (FOSAA)	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
(Perfluorooctane sulfonamidoacetic	聯質譜儀分析。(With reference to				
acid (FOSAA)) (CAS No.: 2806-24-8)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)	(1	0.01		
N-甲基全氟辛烷磺酰胺乙酸 (N-	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
MeFOSAA) (N-methylperfluorooctane	聯質譜儀分析。(With reference to				
sulfonamidoacetic acid (N-MeFOSAA))	CEN/TS 15968: 2010, analysis was				
(CAS No.: 2355-31-9) N. ス甘今気立炉塔毗陸ス 靴 (NL E+FOSAA)	performed by LC/MS/MS.) 參考CEN/TS 15968: 2010,以液相層析串	mg/kg	0.01	n.d.	
N-C基主氟辛烷磺酰胺乙酸 (N-EtrOSAA) (N-ethylperfluorooctane	影質譜儀分析。(With reference to	тту/ку	0.01	n.u.	-
sulfonamidoacetic acid (N-EtFOSAA))	짜頁電展分析。(With reference to CEN/TS 15968: 2010, analysis was				
(CAS No.: 2991-50-6)	performed by LC/MS/MS.)				
(CAS NO 2991-50-6) 全氟戊磺酸 (PFPeS) (Perfluoropentane	参考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	
sulfonic acid (PFPeS)) (CAS No.: 2706-	聯質譜儀分析。(With reference to	шу/ку	0.01	n.u.	-
91-4)	でEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				

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測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)	:) (Result)		(Limit)
				No.1	
2-全氟己基乙酸 (6:2 FTCA) (2-	參考CEN/TS 15968: 2010,以液相層析串	mg/kg	0.01	n.d.	-
Perfluorohexyl ethanoic acid (6:2	聯質譜儀分析。(With reference to				
FTCA)) (CAS No.: 53826-12-3)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
3-全氟戊基丙酸 (5:3 FTCA) (3-	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
Perfluoropentyl propanoic acid (5:3	聯質譜儀分析。(With reference to				
FTCA)) (CAS No.: 914637-49-3)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟壬烷磺酸 (PFNS) (Perfluorononane	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
sulfonic acid (PFNS)) (CAS No.: 68259-	聯質譜儀分析。(With reference to				
12-1)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟十一烷磺酸 (PFUnS)	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
(Perfluoroundecane sulfonic acid	聯質譜儀分析。(With reference to				
(PFUnS)) (CAS No.: 749786-16-1)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				
全氟十二烷磺酸 (PFDoDS)	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
(Perfluorododecane sulfonic acid	聯質譜儀分析。(With reference to				
(PFDoDS)) (CAS No.: 79780-39-5)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)	(1	0.01		
雙(1H,1H,2H,2H-全氟癸基)磷酸酯	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
(8_2diPAP) (Bis(1H,1H,2H,2H-	聯質譜儀分析。(With reference to				
Perfluorodecyl)phosphate (8_2diPAP))	CEN/TS 15968: 2010, analysis was				
(CAS No.: 678-41-1)	performed by LC/MS/MS.)		0.01		
全氟十五烷酸 (PFPeDA, C15)	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
(Pentadecanoic acid, nonacosafluoro	聯質譜儀分析。(With reference to				
(PFPeDA,C15)) (CAS No.: 141074-63-7)	CEN/TS 15968: 2010, analysis was				
	performed by LC/MS/MS.)				

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#### 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. ▲: MDL是針對元素/測試化合物之評估。(The MDL was evaluated for element / tested substance.)
  參數換算表 (Parameter Conversion Table):
- https://eecloud.sgs.com/Region\_TW/DocDownload.aspx?name=Others
- 8. 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.)

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#### Remark :

#### △ 德國產品安全委員會(AfPS): GS PAHs 要求

AfPS (German commission for Product Safety): GS PAHs requirements

	第1類(Category 1)	第 2 類(Category 2)		第3類(Category 3)		
項目 (Parameter)	意圖放入口中的材料或者長時間接 觸皮膚(超過 30 秒)的 2009/48/EC 定義的玩具材料和 3 歲以下兒童使用的產品(Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3	不屬於第 1 類的材料 · 並意圖或可預 見與皮膚接觸逾 30 秒(長期皮膚接觸) 或重複的短時間接觸(Materials that are not in Category 1, with intended or foreseeable long-term		不屬於第1類或第2類的材料·並意 圖或可預見與皮膚接觸不超過30秒 (短期皮膚接觸)(Materials not covered by Category 1 or 2, with		
	years of age with intended long-term skin contact (> 30 seconds))	a. 供 14 歳以下兒童使 用的產品(Use by children under 14)	其它產品(Other consumer	a. 供 14 歳以下兒童使 用的產品(Use by children under 14)	consumer	
Naphthalene	< 1	< 2		< 10	)	
Phenanthrene						
Anthracene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum	
Fluoranthene				< 20 Sulli		
Pyrene						
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Indeno[1,2,3-c,d] pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
15 項 PAH 總濃度 (Sum of 15 PAH)	< 1	< 5	< 10	< 20	< 50	

單位(Unit):mg/kg

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#### 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<sup>6+</sup> test method excluded)



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



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

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#### 紅磷分析流程 / Analytical flow chart - Red phosphorus



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### **Test Report**

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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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## 測試報告 **Test Report**

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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.)



\*\* 報告結尾 (End of Report) \*\*

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