

號碼(No.) : CE/2019/90764

日期(Date): 2019/09/12

#### 頁數(Page): 1 of 26

東協化工股份有限公司 TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號 NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

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

送樣廠商(Sample Submitted By) 樣品名稱(Sample Description) 樣品型號(Style/Item No.)	: : :	東協化工股份有限公司(TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD.) POLYURETHANE INSULATING VARNISH(聚胺基甲酸酯絕緣凡立水) PU-130-XX(N.R.Y.G.B), PU-160-XX(N.R.Y.G.B), PU-180-XX(N.R.Y.G.B), PU-200-XX(N.R.Y.G.B)。
買主/訂單號碼(Buyer/Order No.) 收件日期(Sample Receiving Date) 測試期間(Testing Period)	: : :	0015001< PU-130-XX(N.R.Y.G.B) > ; 0019005 <pu-180-xx(n.r.y.g.b)> 2019/09/05 2019/09/05 to 2019/09/12</pu-180-xx(n.r.y.g.b)>

#### 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, 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).)

测试结果(Test Results) : 請參閱下一頁 (Please refer to following pages).

Troy Chang / Manager - Vec Signed for and behalf of SGS TAIWAN LTD. Chemical Laboratory - Taipei



號碼(No.) : CE/2019/90764

日期(Date): 2019/09/12

#### 頁數(Page): 2 of 26

東協化工股份有限公司 TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號 NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

#### 測試結果(Test Results)

測試部位(PART NAME)No.1 : 紅色液體 (RED LIQUID)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) No.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5 (2013),以感應耦合電 漿發射光譜儀檢測. / With reference to IEC 62321-5 (2013) and performed by ICP-OES.	2	n. d.
鉛 / Lead (Pb)	mg/kg	参考IEC 62321-5 (2013),以感應耦合電 漿發射光譜儀檢測. / With reference to IEC 62321-5 (2013) and performed by ICP-OES.	2	n. d.
汞 / Mercury (Hg)	mg/kg	参考IEC 62321-4:2013+ AMD1:2017,以感 應耦合電漿發射光譜儀檢測. / With reference to IEC 62321-4:2013+ AMD1:2017 and performed by ICP-OES.	2	n. d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321-7-2 (2017),以UV-VIS檢 測. / With reference to IEC 62321-7- 2 (2017) and performed by UV-VIS.	8	n. d.
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n. d.
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	參考IEC 62321-6 (2015),以氣相層析/	5	n. d.
五溴聯苯 / Pentabromobiphenyl	mg/kg	質譜儀檢測. / With reference to IEC - 62321-6(2015)and performed by	5	n. d.
六溴聯苯 / Hexabromobiphenyl	mg/kg	GC/MS.	5	n. d.
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n. d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n. d.



號碼(No.) : CE/2019/90764

日期(Date): 2019/09/12

#### 頁數(Page): 3 of 26

東協化工股份有限公司

TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD.

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NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)
タンカロササチェレルチューノ Curran a f DDDDa	/1			No. 1
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n. d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n. d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg	4 –	5	n. d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg	參考IEC 62321-6 (2015),以氣相層析/	5	n. d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	質譜儀檢測. / With reference to IEC	5	n. d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	62321-6 (2015) and performed by	5	n. d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg	GC/MS.	5	n. d.
七溴聯苯醚 / Heptabromodiphenyl ether	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.
鄰苯二甲酸丁苯甲酯 / BBP(Butyl Benzyl phthalate)(CAS No.: 85-68-7)	mg/kg		50	n. d.
鄰苯二甲酸二丁酯 / DBP(Dibutyl phthalate)(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) (CAS No.: 117-81-7)	mg/kg		50	n. d.
鄰苯二甲酸二異丁酯 / DIBP(Di-isobutyl phthalate)(CAS No.: 84-69-5)	mg/kg	參考IEC 62321-8 (2017),以氣相層析/ 質譜儀檢測. / With reference to IEC	50	n. d.
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	mg/kg	62321-8 (2017). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (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)(CAS No.: 117-84-0)	mg/kg		50	n. d.



號碼(No.) : CE/2019/90764

日期(Date): 2019/09/12

#### 頁數(Page): 4 of 26

東協化工股份有限公司

TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD.

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NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) No.1
六溴環十二烷及所有主要被辨別出的異構 物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321 (2008),以氣相層析/質 譜儀檢測. / With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	5	n. d.
鄰苯二甲酸二乙酯 / DEP (Di-ethyl phthalate) (CAS No.: 84-66-2)	mg/kg		50	n. d.
鄰苯二甲酸二甲酯 / DMP(Di-methyl phathalate)(CAS No.: 131-11-3)	mg/kg		50	n. d.
鄰苯二甲酸二異辛酯 / DIOP(Di-isooctyl phthalate)(CAS No.: 27554-26-3)	mg/kg	參考IEC 62321-8 (2017),以氣相層析/ 質譜儀檢測. / With reference to IEC	50	n. d.
鄰苯二甲酸二丙酯 / DPrP(Di-propyl phthalate)(CAS No.: 131-16-8)	mg/kg		50	n. d.
鄰苯二甲酸二環己酯 / DCHP(Di- cyclohexyl phthalate)(CAS No.: 84- 61-7)	mg/kg		50	n. d.
鄰苯二甲酸二正壬酯 / DNNP(Di-n-nonyl phthalate)(DNP)(CAS No.: 84-76-4)	mg/kg	62321-8 (2017). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二戊酯 / DNPP(Di-n-pentyl phthalate)(CAS No.: 131-18-0)	mg/kg		50	n. d.
鄰苯二甲酸二正己酯 / DNHP(Di-n- hexyl phthalate)(CAS No.: 84-75-3)	mg/kg		50	n. d.
鄰苯二甲酸二苯甲基酯 / DBzP(Dibenzyl phthalate)(CAS No.: 523-31-9)	mg/kg	[	50	n. d.
鄰苯二甲酸二苯酯 / DPhP (Diphenyl phthalate) (CAS No.: 84-62-8)	mg/kg		50	n. d.



號碼(No.) : CE/2019/90764

日期(Date): 2019/09/12

#### 頁數(Page): 5 of 26

東協化工股份有限公司

**Test Report** 

TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD.

苗栗縣竹南鎮和興路346號

NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) No.1
鹵素 / Halogen				NO. 1
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg		50	n. d.
鹵素(氯)/ Halogen-Chlorine(Cl) (CAS No.: 22537-15-1)	mg/kg	參考BS EN 14582(2016),以離子層析儀 分析. / With reference to BS EN	50	n. d.
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	14582 (2016). Analysis was performed by IC.	50	n. d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n. d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	参考CEN/TS 15968(2010),以液相層析/ 質譜儀檢測. / With reference to CEN/TS 15968(2010). Analysis was	0.01	n. d.
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg	performed by LC/MS.	0.01	n. d.
三丁基錫 / Tributyl Tin (TBT)	mg/kg	參考ISO 17353 (2004),以氣相層析儀/	0.03	n. d.
三苯基錫 / Triphenyl Tin (TphT)	mg/kg	火焰光度偵測器檢測. / With reference	0.03	n. d.
ニ丁基錫 / Dibutyl Tin (DBT)	mg/kg	to ISO 17353 (2004). Analysis was	0.03	n. d.
二辛基錫 / Dioctyl Tin (DOT)	mg/kg	performed by GC/FPD.	0.03	n. d.
氧化雙三丁基錫 / Bis(tributyltin)oxide (TBTO) (CAS No.: 56-35-9)	mg/kg	參考ISO 17353 (2004),以氣相層析儀/ 火焰光度偵測器檢測;由三丁基錫測試結 果計算得之. / With reference to ISO 17353 (2004). Analysis was performed by GC/FPD. Calculated from the result of Tributyl Tin (TBT).	0.03 (▲)	n. d.
富馬酸二甲酯 / Dimethyl Fumarate (CAS No.: 624-49-7)	mg/kg	参考US EPA 3550C (2007),以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.	0.1	n. d.



號碼(No.): CE/2019/90764 日其

日期(Date): 2019/09/12

#### 頁數(Page): 6 of 26

**Test Report** 東協化工股份有限公司

TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) No.1
偶氮 (AZO)				
1): 4-氨基二苯 / 4-AMINODIPHENYL (CAS No.: 92-67-1)	mg/kg		3	n. d.
2): 聯苯胺 / BENZIDINE (CAS No.: 92- 87-5)	mg/kg		3	n. d.
3): 4-氯鄰甲苯胺 / 4-CHLORO-O- TOLUIDINE (CAS No.: 95-69-2)	mg/kg		3	n. d.
4): 2-茶胺 / 2-NAPHTHYLAMINE (CAS No.: 91-59-8)	mg/kg		3	n. d.
5): 鄰氨基二甲基偶氮 / 0- AMINOAZOTOLUENE (CAS No.: 97-56-3)	mg/kg	參考LFGB 82.02-2 (2013),以氣相層析/	3	n. d.
6): 對硝基鄰甲苯胺 / 2-AMINO-4- NITROTOLUENE (CAS No.: 99-55-8)	mg/kg		3	n. d.
7): 對氯苯胺 / P-CHLOROANILINE (CAS No.: 106-47-8)	mg/kg	質譜儀檢測. / With reference to LFGB 82.02-2 (2013). Analysis was performed by GC/MS.	3	n. d.
8): 4-甲氧基-間苯二胺 / 2,4- DIAMINOANISOLE (CAS No.: 615-05-4)	mg/kg	performed by 00/mo.	3	n. d.
9): 4,4'-二氨基二苯甲烷 / 4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 101-77-9)	mg/kg		3	n. d.
10): 3,3'-二氯聯苯胺 / 3,3'- DICHLOROBENZIDINE(CAS No.: 91-94-1)	mg/kg		3	n. d.
11): 3,3'-二甲氧基聯苯胺 / 3,3'- DIMETHOXYBENZIDINE (CAS No.: 119-90-4)	mg/kg		3	n. d.
12): 3,3'-二甲基聯苯胺 / 3,3'- DIMETHYLBENZIDINE (CAS No.: 119-93-7)	mg/kg		3	n. d.



號碼(No.): CE/2019/90764 日期(

日期(Date): 2019/09/12

#### 頁數(Page): 7 of 26

**Test Report** 

東協化工股份有限公司 TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號 NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) No.1
13): 3,3'-二甲基-4,4'-二氨基二苯甲烷 / 3,3'-DIMETHYL-4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 838-88-0)	mg/kg		3	n. d.
14): 2-甲氧基-5-甲基聯苯 / P- CRESIDINE(2-METHOXY-5- METHYLANILINE)(CAS No.: 120-71-8)	mg/kg		3	n. d.
15): 4,4'-亞甲基雙(氯苯胺)/ 4,4'- METHYLENE-BIS- (2-CHLOROANILINE) (CAS No.: 101-14-4)	mg/kg		3	n. d.
16): 4,4'-氧化雙苯胺 / 4,4'- OXYDIANILINE (CAS No.: 101-80-4)	mg/kg	参考LFGB 82.02-2(2013),以氣相層析/ 質譜儀檢測. / With reference to LFGB	3	n. d.
17): 4,4'-硫代雙苯胺 / 4,4'- THIODIANILINE(CAS No.: 139-65-1)	mg/kg		3	n. d.
18): 鄰甲苯胺 / O-TOLUIDINE (CAS No.: 95-53-4)	mg/kg	82.02-2 (2013). Analysis was performed by GC/MS.	3	n. d.
19): 2,4-二氨基甲苯 / 2,4- TOLUYLENEDIAMINE(CAS No.: 95-80-7)	mg/kg		3	n. d.
20): 2,4,5-三甲基苯胺 / 2,4,5- TRIMETHYLANILINE(CAS No.: 137-17-7)	mg/kg		3	n. d.
21): 鄰位甲氧基苯胺 / O-ANISIDINE (CAS No.: 90-04-0)	mg/kg		3	n. d.
22): 對氨基偶氮苯 / 4- AMINOAZOBENZENE (CAS No.: 60-09-3)	mg/kg		3	n. d.
23): 2,4-二甲基苯胺 / 2,4-XYLIDINE (CAS No.: 95-68-1)	mg/kg		3	n. d.
24): 2,6-二甲基苯胺 / 2,6-XYLIDINE (CAS No.: 87-62-7)	mg/kg		3	n. d.



號碼(No.) : CE/2019/90764

日期(Date): 2019/09/12

#### 頁數(Page): 8 of 26

Test Report 東協化工股份有限公司

TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號

NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) No.1
四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	参考Global SOP RSTS-E&E-121 (2012),以 液相層析/質譜儀分析. / With reference to Global SOP RSTS-E&E-121 (2012). Analysis was performed by LC/MS.	10	n. d.
四溴雙酚-A-雙 / TBBP-A-bis (CAS No.: 21850-44-2)	mg/kg	参考US EPA 3550C (2007),以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.	5	n. d.
銻 / Antimony (Sb)	mg/kg	参考US EPA 3052 (1996),以感應耦合電 漿發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-OES.	2	n. d.
砷 / Arsenic (As)	mg/kg	参考US EPA 3052 (1996),以感應耦合電 漿發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-OES.	2	n. d.
鈹 / Beryllium (Be)	mg/kg	參考US EPA 3052 (1996),以感應耦合電 漿發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-OES.	2	n. d.
紅磷 / Red phosphorus	**	以熱裂解-氣相層析/質譜儀分析. / Analysis was performed by Pyrolyzer- GC/MS.	_	Negative
雙酚 A / Bisphenol A (CAS No.: 80- 05-7)	mg/kg	参考RSTS-CHEM-239-1 (2016),以超高效能 液相層析串聯質譜儀檢測. / With reference to RSTS-CHEM-239-1 (2016). Analysis was performed by UPLC-MSMS.	1	n. d.



號碼(No.): CE/2019/90764 日

日期(Date): 2019/09/12

#### 頁數(Page): 9 of 26

東協化工股份有限公司

TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD.

苗栗縣竹南鎮和興路346號

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)
· · ·				No. 1
多環芳香烴 / Polycyclic Aromatic Hydrocarbons (PAHs)				
苊 / Acenaphthene (CAS No.: 83-32-9)	mg/kg		0.2	n. d.
苊烯 / Acenaphthylene(CAS No.: 208-96- 8)	mg/kg		0.2	n. d.
蔥 / Anthracene (CAS No.: 120-12-7)	mg/kg	1 6	0.2	n. d.
苯駢蒠 / Benzo[a]anthracene(CAS No.: 56-55-3)	mg/kg		0.2	n. d.
苯駢(a)芘 / Benzo[a]pyrene (CAS No.: 50- 32-8)	mg/kg		0.2	n. d.
苯(b)苯聠芴 / Benzo[b]fluoranthene(CAS No.: 205-99-2)	mg/kg		0.2	n. d.
苯駢苝 / Benzo[g,h,i]perylene(CAS No.: 191-24-2)	mg/kg		0.2	n. d.
苯駢(k)螢蔥 / Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg		0.2	n. d.
Chrysene (CAS No.: 218-01-9)	mg/kg	参考AfPS GS 2014:01 PAK,以氣相層析/ - 質譜儀檢測. / With reference to AfPS _	0.2	n. d.
ニ苯聠蔥 / Dibenzo[a,h]anthracene(CAS No.: 53-70-3)	mg/kg	GS 2014:01 PAK. Analysis was	0.2	n. d.
苯駢苊 / Fluoranthene (CAS No.: 206-44- 0)	mg/kg	performed by 00/mo.	0.2	n. d.
芴 / Fluorene (CAS No.: 86-73-7)	mg/kg	1	0.2	n. d.
茚酮芘 / Indeno[1,2,3-c,d] pyrene(CAS No.: 193-39-5)	mg/kg		0.2	n. d.
茶 / Naphthalene (CAS No.: 91-20-3)	mg/kg	1 [	0.2	3.57
菲 / Phenanthrene (CAS No.: 85-01-8)	mg/kg	1 [	0.2	n. d.
芘 / Pyrene (CAS No.: 129-00-0)	mg/kg		0.2	n. d.
苯(j)苯聠芴 / Benzo[j]fluoranthene(CAS No.: 205-82-3)	mg/kg		0.2	n. d.
苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192-97-2)	mg/kg		0.2	n. d.
多環芳香烴18項總和 / Sum of 18 PAHs	mg/kg	] [	-	3.57



號碼(No.): CE/2019/90764 日期

日期(Date): 2019/09/12

頁數(Page): 10 of 26

Test Report

東協化工股份有限公司 TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號 NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

#### 備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出)
- 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. 換算公式 (Conversion Formula):AX = A × F

AX	А	F			
氧化雙三丁基錫 / Bis(tributyltin)oxide (TBTO)	三丁基錫 / Tributyl Tin (TBT)	1.024			
な 地 16 悠 キー / D 、 、					

8. 參數換算表 / Parameter Conversion Table: http://twap.sgs.com/sgsrsts/chn/download-REACH\_tw.asp

#### PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 2019/1021

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或 塗層材料中不得超過1 $\mu$ g/m<sup>2</sup>。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above  $1\mu g/m^2$ .)

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號碼(No.) : CE/2019/90764

日期(Date): 2019/09/12

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#### △ 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(Ca	ategory 2)	第3類(Ca	ategory 3)
項目 (Parameter)	意圖放入嘴內的材料 或玩具會與皮膚有所 接觸(超過30秒). (Material indented to be put in the mouth or toys with intended skin	接觸逾30秒(長期 觸). (Materials under category foreseeable con longer than 30	not falling l with tact to skin for	皮膚接觸),以及 類的材料.(Mate under category foreseeable con less than 30 se	tact to skin for conds (short-
	<pre>contact (longer than 30 s).)</pre>	列於2009/48/EC 之玩具 (Toy under 2009/48/EC)	列於德國產品安全 法之其他產品 (Other products under ProdSG)	列於2009/48/EC 之玩具 (Toy under 2009/48/EC)	列於德國產品安全 法之其他產品 (Other products under ProdSG)
Naphthalene	< 1	<	< 2	<	10
Acenaphthylene					
Acenaphthene					
Fluorene					
Phenanthrene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Anthracene					
Fluoranthene					
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
18項PAH總濃度 (Sum of 18 PAH)	< 1	< 5	< 10	< 20	< 50

單位(Unit):mg/kg



# 測試報告 Test Report<sup>號碼(No</sup>

號碼(No.): CE/2019/90764 日期

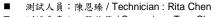
日期(Date): 2019/09/12

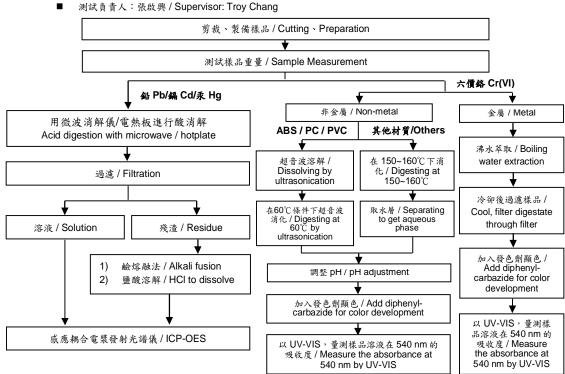
#### 頁數(Page): 12 of 26

東協化工股份有限公司 TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號 NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

#### 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)







### 測試報告 Tost Popor

# **Test Report**

東協化工股份有限公司 TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號 NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

號碼(No.): CE/2019/90764

#### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

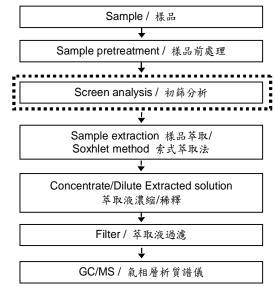
日期(Date): 2019/09/12

頁數(Page): 13 of 26

■ 測試人員:涂雅苓 / Technician: Yaling Tu

■ 測試負責人:張啟興 / Supervisor: Troy Chang

初次測試程序 / First testing process \_\_\_\_\_\_ 選擇性篩檢程序 / Optional screen process • • • • • • • 確認程序 / Confirmation process \_ • • - • •





### 測試報告 Toot Donor

# **Test Report**

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號碼(No.): CE/2019/90764

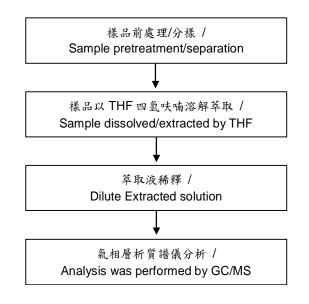
#### 可塑劑分析流程圖 / Analytical flow chart - Phthalate

日期(Date): 2019/09/12

頁數(Page): 14 of 26

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang

#### 【测試方法/Test method: IEC 62321-8】





**Test Report** 

號碼(No.): CE/2019/90764

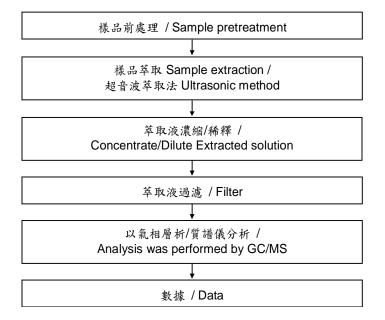
日期(Date): 2019/09/12

#### 頁數(Page): 15 of 26

東協化工股份有限公司 TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號 NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

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

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang





#### 测試報告 Tool Domo

### **Test Report**

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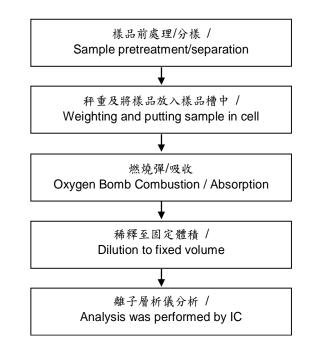
日期(Date): 2019/09/12

#### 頁數(Page): 16 of 26

東協化工股份有限公司 TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號 NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

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

- 测試人員:陳恩臻 / Technician: Rita Chen
- 測試負責人:張啟興 / Supervisor: Troy Chang



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號碼(No.): CE/2019/90764 日期(

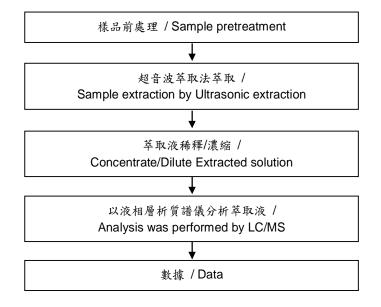
日期(Date): 2019/09/12

#### 頁數(Page): 17 of 26

東協化工股份有限公司 TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號 NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

#### 全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang



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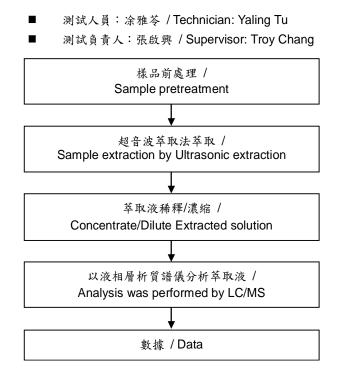
號碼(No.): CE/2019/90764

日期(Date): 2019/09/12

#### 頁數(Page): 18 of 26

東協化工股份有限公司 TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號 NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

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



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**Test Report** 

號碼(No.): CE/2019/90764

日期(Date): 2019/09/12

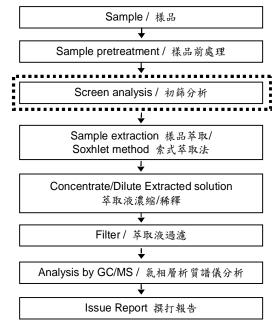
頁數(Page): 19 of 26

東協化工股份有限公司 TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號 NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

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

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang

初次測試程序 / First testing process \_ → 選擇性篩檢程序 / Optional screen process ... . . . . 確認程序 / Confirmation process \_ · \_ · ▶





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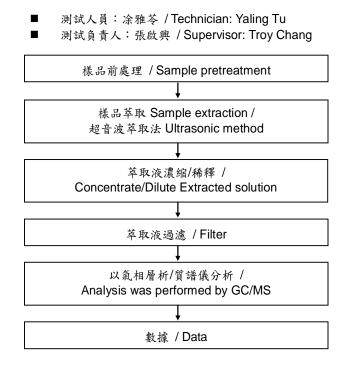
號碼(No.): CE/2019/90764 日期(

日期(Date): 2019/09/12

#### 頁數(Page): 20 of 26

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#### 富馬酸二甲酯分析流程圖 / Analytical flow chart - Dimethyl Fumarate





**Test Report** 

號碼(No.): CE/2019/90764

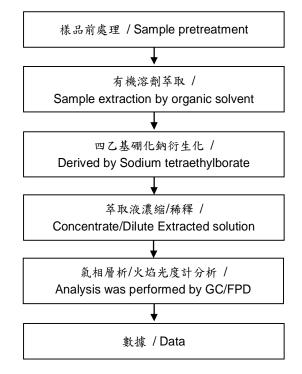
日期(Date): 2019/09/12

#### 頁數(Page): 21 of 26

東協化工股份有限公司 TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號 NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

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

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang





號碼(No.): CE/2019/90764

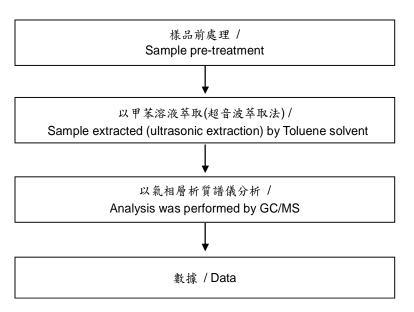
日期(Date): 2019/09/12

#### 頁數(Page): 22 of 26

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#### 多環芳香烴分析流程圖 / Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang





# 測試報告 Test Report<sup>號碼(No.)</sup>

號碼(No.): CE/2019/90764 日期(

日期(Date): 2019/09/12

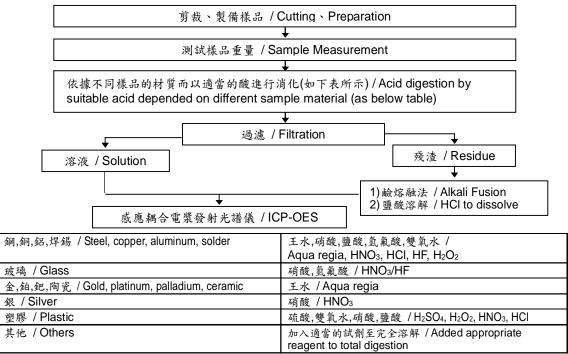
#### 頁數(Page): 23 of 26

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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.

- 測試人員:陳恩臻 / Technician: Rita Chen
- 測試負責人:張啟興 / Supervisor: Troy Chang

#### 元素以 ICP-OES 分析的消化流程圖 (Flow Chart of digestion for the elements analysis performed by ICP-OES)





**Test Report** 

號碼(No.): CE/2019/90764

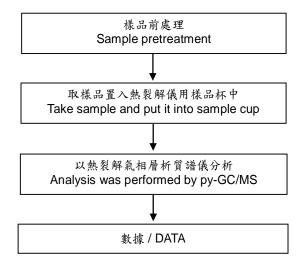
日期(Date): 2019/09/12

#### 頁數(Page): 24 of 26

東協化工股份有限公司 TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號 NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

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

- 测試人員:涂雅苓/Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang





# **Test Report**

號碼(No.): CE/2019/90764

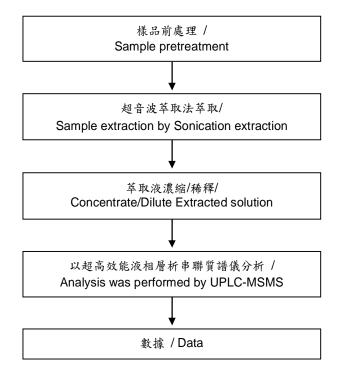
日期(Date): 2019/09/12

#### 頁數(Page): 25 of 26

東協化工股份有限公司 TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號 NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

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

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang





號碼(No.): CE/2019/90764

日期(Date): 2019/09/12

#### 頁數(Page): 26 of 26

東協化工股份有限公司 TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD. 苗栗縣竹南鎮和興路346號 NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

> \* 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.)

# CE/2019/90764



\*\* 報告結尾 (End of Report) \*\*