

Test Report

號碼(No.): ETR24805583

日期(Date): 05-Sep-2024

頁數(Page): 1 of 10

臺灣塑膠工業股份有限公司-冬山廠 (FORMOSA PLASTICS CORPORATION TUNGSHAN PLANT) 宜蘭縣冬山鄉東福路201號 (201, DONG-FWU RD., TUNGSHAN HSIANG, I-LAN HSIEN, TAIWAN, 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 the applicant as):

臺灣塑膠工業股份有限公司-冬山廠 (FORMOSA PLASTICS CORPORATION 送樣廠商(Sample Submitted By)

TUNGSHAN PLANT)

樣品名稱(Sample Name) GROUND CALCIUM CARBONATE (重質碳酸鈣)

樣品型號(Style/Item No.) 客戶自行調配之樣品 (SAMPLE IS BLENDED BY CLIENT): INCLUDING SS-30、

> SS-80 · KS-50(A) · KS-90B · NS-100 · TS-100 · NS-400 · NS-600 · NS-1000 · P-2300 \ NS-2500 \ NCC-P \ NEW-F \ NCC-110 \ NCC-110B \ NCC-410 \ NCC-610 \ NCC-610A \ NCC-1010 \ NCC-2510 \ NCC-2510S \ NCC-2510A

收件日(Sample Receiving Date) 29-Aug-2024

測試期間(Testing Period) 29-Aug-2024 to 05-Sep-2024

測試需求(Test Requested) 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.)





PIN CODF: 134B14F5



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測試部位敘述 (Test Part Description)

No.1 : 白色粉末 (客戶自行調配之樣品) (WHITE POWDER (SAMPLE IS BLENDED BY CLIENT))

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))	參考IEC 62321-5: 2013 · 以感應耦合電漿發	mg/kg	2	n.d.
	射光譜儀分析。(With reference to IEC			
	62321-5: 2013, analysis was performed			
	by ICP-OES.)			
鉛 (Pb) (Lead (Pb))	參考IEC 62321-5: 2013,以感應耦合電漿發	mg/kg	2	n.d.
	射光譜儀分析。(With reference to IEC			
	62321-5: 2013, analysis was performed			
	by ICP-OES.)			
汞 (Hg) (Mercury (Hg))	參考IEC 62321-4: 2013+ AMD1: 2017,以	mg/kg	2	n.d.
	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.
Cr(VI))	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)	参与EC 62321-6. 2013・以無相層が譲/員 - 譜儀分析。(With reference to IEC 62321- - 6: 2015, analysis was performed by - GC/MS.)	mg/kg	5	n.d.
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.

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新北市五股區新北產業園區五權七路 25 號 t+886(02)2299 3939 f+886(02)2299 3237 25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan



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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(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	mg/kg	5	n.d.
六溴聯苯醚 (Hexabromodiphenyl ether)	譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by	mg/kg	5	n.d.
七溴聯苯醚 (Heptabromodiphenyl ether)	GC/MS.)	mg/kg	5	n.d.
八溴聯苯醚 (Octabromodiphenyl ether)	(GC/1V13.)	mg/kg	5	n.d.
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	1	n.d.
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl	參考IEC 62321-8: 2017·以氣相層析儀/質	mg/kg	50	n.d.
phthalate (BBP))	譜儀分析。(With reference to IEC 62321-			
	8: 2017, analysis was performed by			
	GC/MS.)			
鄰苯二甲酸二丁酯 (DBP) (Dibutyl	參考IEC 62321-8: 2017 · 以氣相層析儀/質	mg/kg	50	n.d.
phthalate (DBP))	譜儀分析。(With reference to IEC 62321-			
	8: 2017, analysis was performed by			
	GC/MS.)			
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-	參考IEC 62321-8: 2017·以氣相層析儀/質	mg/kg	50	n.d.
(2-ethylhexyl) phthalate (DEHP))	譜儀分析。(With reference to IEC 62321-			
	8: 2017, analysis was performed by			
	GC/MS.)			
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl	參考IEC 62321-8: 2017 · 以氣相層析儀/質	mg/kg	50	n.d.
phthalate (DIBP))	譜儀分析。(With reference to IEC 62321-			
	8: 2017, analysis was performed by			
	GC/MS.)			



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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1
多環芳香烴 (Polycyclic Aromatic				
Hydrocarbons) (PAHs)		d		
苯駢(a)芘 (Benzo[a]pyrene) (CAS No.:		mg/kg	0.2	n.d.
50-32-8)		//	0.0	
苯駢(e)芘 (Benzo[e]pyrene) (CAS No.:		mg/kg	0.2	n.d.
192-97-2)			0.2	
苯駢蒽 (Benzo[a]anthracene) (CAS No.: 56-55-3)		mg/kg	0.2	n.d.
苯(b)苯駢芴 (Benzo[b]fluoranthene)		ma/ka	0.2	n d
(CAS No.: 205-99-2)		mg/kg	0.2	n.d.
苯(j)苯駢芴 (Benzo[j]fluoranthene) (CAS		mg/kg	0.2	n.d.
No.: 205-82-3)		ilig/kg	0.2	n.u.
苯(k)苯駢芴 (Benzo[k]fluoranthene)		mg/kg	0.2	n.d.
(CAS No.: 207-08-9)	 参考AfPS GS 2019:01 PAK·以氣相層析儀/	9, 9		
菌 (Chrysene) (CAS No.: 218-01-9)	質譜儀分析。(With reference to AfPS GS	mg/kg	0.2	n.d.
二苯駢蒽 (Dibenzo[a,h]anthracene)	2019:01 PAK, analysis was performed by	mg/kg	0.2	n.d.
(CAS No.: 53-70-3)	GC/MS.)			
苯駢菲 (Benzo[g,h,i]perylene) (CAS No.:	,	mg/kg	0.2	n.d.
191-24-2)				
茚酮芘 (Indeno[1,2,3-c,d]pyrene) (CAS		mg/kg	0.2	n.d.
No.: 193-39-5)				
蒽 (Anthracene) (CAS No.: 120-12-7)		mg/kg	0.2	n.d.
苯駢芴 (Fluoranthene) (CAS No.: 206-		mg/kg	0.2	n.d.
44-0)				
菲 (Phenanthrene) (CAS No.: 85-01-8)		mg/kg	0.2	n.d.
芘 (Pyrene) (CAS No.: 129-00-0)		mg/kg	0.2	n.d.
萘 (Naphthalene) (CAS No.: 91-20-3)		mg/kg	0.2	n.d.
多環芳香烴15項總和 (Sum of 15 PAHs)		mg/kg	-	n.d.



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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)



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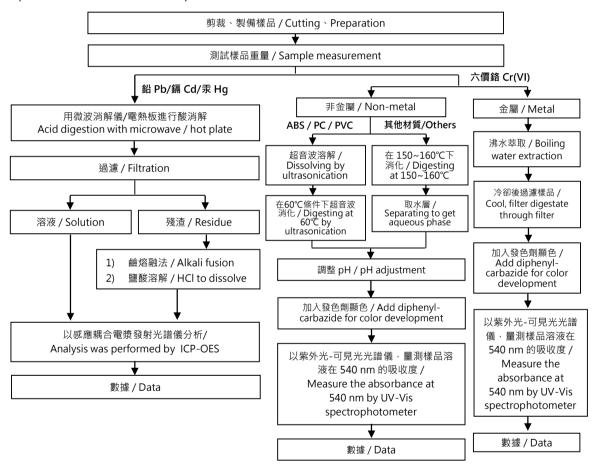
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重金屬流程圖 / Analytical flow chart of heavy metal

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. (Cr⁶⁺ test method excluded)





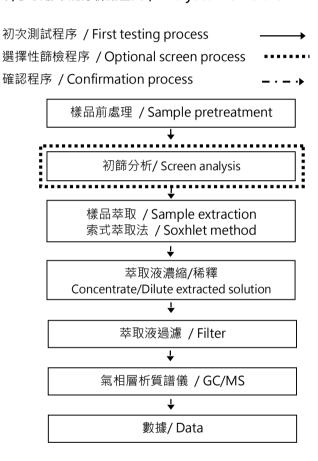
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs





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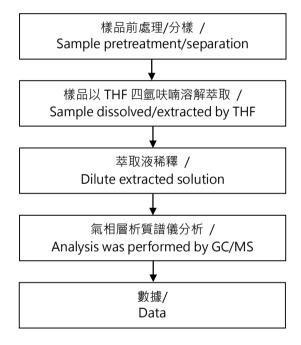
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】





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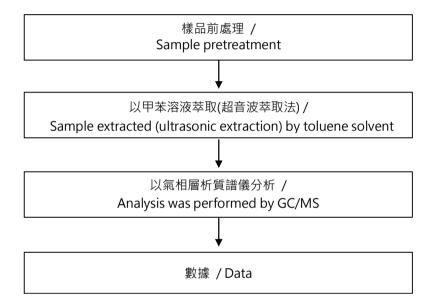
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多環芳香烴分析流程圖 / Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)





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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.)

ETR24805583



** 報告結尾 (End of Report) **