

**Test Report** 

號碼(No.): ETR23200127M01 日期(Date): 16-Mar-2023 頁數(Page): 1 of 12

高創科技股份有限公司 (GOTREND TECHNOLOGY CO., LTD.)

新北市中和區建一路186號17樓 (17F., NO.186, JIAN 1ST RD., ZHONGHE DIST, NEW TAIPEI CITY 235, 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):

樣品名稱(Sample Name) : MAGNETIC RESIN

樣品型號(Style/Item No.) : TAP

\_\_\_\_\_

收件日(Sample Receiving Date) :

: 01-Feb-2023

測試期間(Testing Period)

01-Feb-2023 to 07-Feb-2023

**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.)

Troy Chang / Department Malager Signed for and on behalf of SGS TAIWAN LTD. Chemical Laboratory - Taipei



PIN CODE: 262C06B0



# **Test Report**

號碼(No.): ETR23200127M01 日期(Date): 16-Mar-2023 頁數(Page): 2 of 12

高創科技股份有限公司 (GOTREND TECHNOLOGY CO., LTD.)

新北市中和區建一路186號17樓 (17F., NO.186, JIAN 1ST RD., ZHONGHE DIST, NEW TAIPEI CITY 235, TAIWAN (R.O.C.))

#### 測試部位敘述 (Test Part Description)

No.1 : 黑色塊狀 (BLACK LUMP)

#### 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 · 以感應耦合電漿發射光	mg/kg	2	n.d.
	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))	參考IEC 62321-4: 2013+ AMD1: 2017,以感應耦	mg/kg	2	n.d.
	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))	光度計分析。(With reference to IEC 62321-7-2:			
	2017, analysis was performed by UV-VIS.)			



# **Test Report**

號碼(No.): ETR23200127M01 日期(Date): 16-Mar-2023 頁數(Page): 3 of 12

高創科技股份有限公司 (GOTREND TECHNOLOGY CO., LTD.)

新北市中和區建一路186號17樓 (17F., NO.186, JIAN 1ST RD., ZHONGHE DIST, NEW TAIPEI CITY 235, TAIWAN (R.O.C.))

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
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)		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)	1	mg/kg	5	n.d.
十溴聯苯 (Decabromobiphenyl)	   参考IEC 62321-6: 2015·以氣相層析儀/質譜儀分	mg/kg	5	n.d.
多溴聯苯總和 (Sum of PBBs)	参与IEC 02321-0. 2013・以来伯信勿 酸/真晶酸力析。(With reference to IEC 62321-6: 2015,	mg/kg	1	n.d.
一溴聯苯醚 (Monobromodiphenyl ether)	analysis was performed by GC/MS.)	mg/kg	5	n.d.
二溴聯苯醚 (Dibromodiphenyl ether)	arranysis was performed by GC/Wis./	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)		mg/kg	5	n.d.
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	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.
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.



# **Test Report**

號碼(No.): ETR23200127M01 日期(Date): 16-Mar-2023

頁數(Page): 4 of 12

高創科技股份有限公司 (GOTREND TECHNOLOGY CO., LTD.)

新北市中和區建一路186號17樓 (17F., NO.186, JIAN 1ST RD., ZHONGHE DIST, NEW TAIPEI CITY 235, TAIWAN (R.O.C.))

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl		mg/kg	50	n.d.
phthalate (BBP))				
鄰苯二甲酸二丁酯 (DBP) (Dibutyl		mg/kg	50	n.d.
phthalate (DBP))				
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-		mg/kg	50	n.d.
(2-ethylhexyl) phthalate (DEHP))				
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl		mg/kg	50	n.d.
phthalate (DIBP))				
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl		mg/kg	50	n.d.
phthalate (DIDP)) (CAS No.: 26761-40-	參考IEC 62321-8: 2017·以氣相層析儀/質譜儀分			
0, 68515-49-1)	析。(With reference to IEC 62321-8: 2017,			
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl	analysis was performed by GC/MS.)	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)				
鄰苯二甲酸二正戊酯 (DNPP) (Di-n-		mg/kg	50	n.d.
pentyl phthalate (DNPP)) (CAS No.:				
131-18-0)				
鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl		mg/kg	50	n.d.
phthalate (DNHP)) (CAS No.: 84-75-3)				



# **Test Report**

號碼(No.): ETR23200127M01 日期(Date): 16-Mar-2023 頁數(Page): 5 of 12

高創科技股份有限公司 (GOTREND TECHNOLOGY CO., LTD.)

新北市中和區建一路186號17樓 (17F., NO.186, JIAN 1ST RD., ZHONGHE DIST, NEW TAIPEI CITY 235, TAIWAN (R.O.C.))

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
六溴環十二烷及所有主要被辨別出的異構	參考IEC 62321-9: 2021 · 以氣相層析儀/質譜儀分	mg/kg	20	n.d.
物(HBCDD) (α- HBCDD, β- HBCDD, γ-	析。(With reference to IEC 62321-9: 2021,			
HBCDD) (Hexabromocyclododecane (HBCDD) and all major	analysis was performed by GC/MS.)			
diastereoisomers identified ( $\alpha$ - HBCDD,				
β- HBCDD, γ- HBCDD)) (CAS No.:				
25637-99-4, 3194-55-6 (134237-51-7,				
134237-50-6, 134237-52-8))				
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-		mg/kg	50	n.d.
8)				
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-	參考BS EN 14582: 2016·以離子層析儀分析。	mg/kg	50	496
15-1)	(With reference to BS EN 14582: 2016, analysis			
溴 (Br) (Bromine (Br)) (CAS No.: 10097-	was performed by IC.)	mg/kg	50	n.d.
32-2)				
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-	參考US EPA 3052: 1996,以感應耦合電漿發射光	mg/kg	2	n.d.
36-0)	譜儀分析。(With reference to US EPA 3052:			
	1996, analysis was performed by ICP-OES.)			

#### 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. 本報告為 ETR23200127 之異動報告。(This is the additional test report of ETR23200127.)



# **Test Report**

號碼(No.): ETR23200127M01 日期(Date): 16-Mar-2023 頁

頁數(Page): 6 of 12

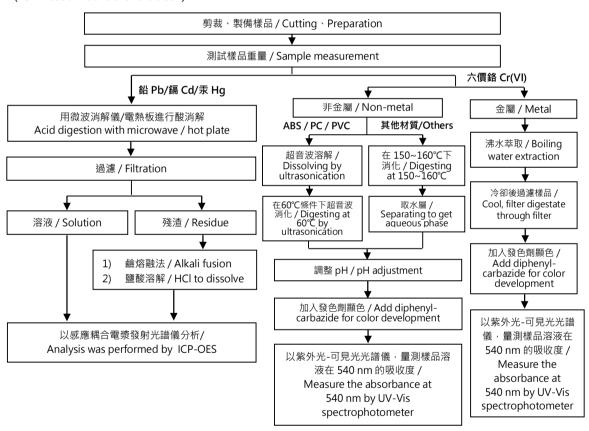
高創科技股份有限公司 (GOTREND TECHNOLOGY CO., LTD.)

新北市中和區建一路186號17樓 (17F., NO.186, JIAN 1ST RD., ZHONGHE DIST, NEW TAIPEI CITY 235, TAIWAN (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. ( $Cr^{6+}$  test method excluded)





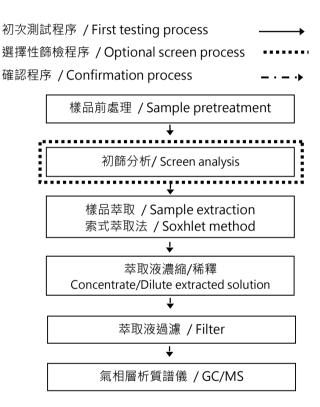
# **Test Report**

號碼(No.): ETR23200127M01 日期(Date): 16-Mar-2023 頁數(Page): 7 of 12

高創科技股份有限公司 (GOTREND TECHNOLOGY CO., LTD.)

新北市中和區建一路186號17樓 (17F., NO.186, JIAN 1ST RD., ZHONGHE DIST, NEW TAIPEI CITY 235, TAIWAN (R.O.C.))

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





# **Test Report**

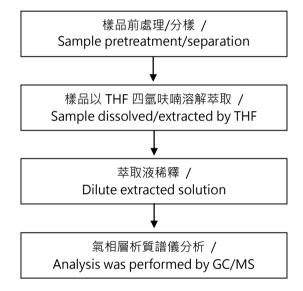
號碼(No.): ETR23200127M01 日期(Date): 16-Mar-2023 頁數(Page): 8 of 12

高創科技股份有限公司 (GOTREND TECHNOLOGY CO., LTD.)

新北市中和區建一路186號17樓 (17F., NO.186, JIAN 1ST RD., ZHONGHE DIST, NEW TAIPEI CITY 235, TAIWAN (R.O.C.))

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

【測試方法/Test method: IEC 62321-8】





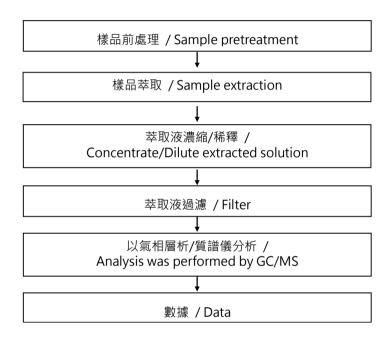
# **Test Report**

號碼(No.): ETR23200127M01 日期(Date): 16-Mar-2023 頁數(Page): 9 of 12

高創科技股份有限公司 (GOTREND TECHNOLOGY CO., LTD.)

新北市中和區建一路186號17樓 (17F., NO.186, JIAN 1ST RD., ZHONGHE DIST, NEW TAIPEI CITY 235, TAIWAN (R.O.C.))

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





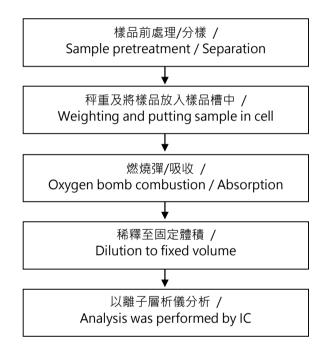
# **Test Report**

號碼(No.): ETR23200127M01 日期(Date): 16-Mar-2023 頁數(Page): 10 of 12

高創科技股份有限公司 (GOTREND TECHNOLOGY CO., LTD.)

新北市中和區建一路186號17樓 (17F., NO.186, JIAN 1ST RD., ZHONGHE DIST, NEW TAIPEI CITY 235, TAIWAN (R.O.C.))

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





## **Test Report**

號碼(No.): ETR23200127M01 日期(Date): 16-Mar-2023 頁數(Page): 11 of 12

高創科技股份有限公司 (GOTREND TECHNOLOGY CO., LTD.)

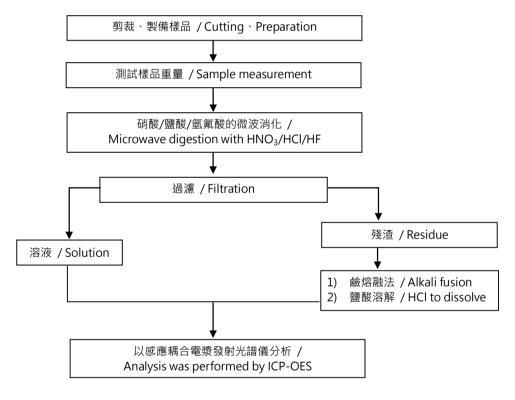
新北市中和區建一路186號17樓 (17F., NO.186, JIAN 1ST RD., ZHONGHE DIST, NEW TAIPEI CITY 235, TAIWAN (R.O.C.))

#### 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.

【参考方法/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.



## **Test Report**

號碼(No.): ETR23200127M01 日期(Date): 16-Mar-2023 頁數(Page): 12 of 12

高創科技股份有限公司 (GOTREND TECHNOLOGY CO., LTD.)

新北市中和區建一路186號17樓 (17F., NO.186, JIAN 1ST RD., ZHONGHE DIST, NEW TAIPEI CITY 235, TAIWAN (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.)

### ETR23200127



\*\* 報告結尾 (End of Report) \*\*