



# 測試報告

# Test Report

號碼(No.): ETR21403852

日期(Date): 22-Apr-2021

頁數(Page): 1 of 8

東莞市吉得塑膠有限公司 (DONG GUAN UGET PLASTICS CO., LTD.)

東莞市橫瀝鎮田坑村第三工業區 (TANKENG 3RD IND. ZONE, HENGLI TOWN, DONGGUAN CITY, CHINA)

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) : 東莞市吉得塑膠有限公司 (DONG GUAN UGET PLASTICS CO., LTD.)  
 樣品名稱(Sample Name) : TPU RESIN (TPU 膠粒)  
 樣品型號(Style/Item No.) : 請參考第2頁 (PLEASE REFER TO PAGE 2)

=====  
 收件日(Sample Receiving Date) : 15-Apr-2021  
 測試期間(Testing Period) : 15-Apr-2021 to 22-Apr-2021

測試需求(Test Requested) : 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).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

*Troy Chang*  
 Troy Chang, Manager, Tech  
 Signed for and on behalf of  
 SGS TAIWAN LTD.  
 Chemical Laboratory - Taipei




PIN CODE: A36F5E6A

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東莞市橫瀝鎮田坑村第三工業區 (TANKENG 3RD IND. ZONE, HENGLI TOWN, DONGGUAN CITY, CHINA)

樣品型號(Style/Item No.)

:

A-80A A-82A(QD8) A-83A A-85A(QD8) A-90A A-92A(QD8) A-95A(QD8) A-98A(QD8) A-55D(QD8)  
A-60D(QD8) A-64D(QD8) A-71D A-72D(QD8) AB-(4)85A(T)(U) AB-(4)92A(T)(U) AB-(4)95A(T)(U)  
AB-(4)98A(T)(U) AS-(4)85A(T)(U) AS-(4)92A(T)(U) AS-(4)95A(T)(U) AS-(4)98A(T)(U) B75A(Y)(E)  
B80A(Y)(E) B82A(Y)(E) B85A(Y)(E) B90A(Y)(E) B92A(Y)(E) B95A(Y)(E) B98A(Y)(E) B60D(Y)(E)  
B64D(Y)(E) B71D(Y)(E) BD-80A(U) BD-85A(U) BD-90A(U) BD-95A(U) C(0)-80A(H)(U) C(0)-85A(H)(U)  
C(0)-90A(H)(U) C(0)-95A(H)(U) C(0)-98A(H)(U) C(0)-60D(H)(U) C(0)-64D(H)(U) C(0)-71D(H)(U)  
DP-85A(U) DP-90A(U) DP-95A(U) DP-98A(U) E-(2)75A E-(2)(4)80A E-(2)(4)85A E-(2)(4)90A E-(2)(4)95A  
E-(2)(4)98A E-(2)(4)60D E-(2)(4)64D EW-80A(P)(F) EW-85A(P)(F) EW-90A(P)(F) EW-95A(P)(F) EW-98A (P)(F)  
V-80A(P)(SR) V-85A(P)(SR) V-90A(P)(SR) V-95A(P)(SR) V-60D(P)(SR) V-64D(P)(SR) V-72D(P)(SR) G-180A  
G-185A G-190A G-195A G-198A G-160D G-164D G-171D G-174D G-80A(U) G-85A(U)(X) G-92A(U)(X)  
G-95A(B)(U)(X) G-98A(U)(X) G-60D(U)(X) G-64D(U)(X) G-71D(U) I-60A(U) I-65A(U) I(S)-70A(U) I(S)-75A(U)  
I(S)-80A(U) I-85A(U) I-90A(U) I-95A(U) T-1285A(U)(X) T-1290A(U)(X) T-1292A(U)(X) T-1295A(U)(X)  
T-1298A(U)(X) T-280A(U)(S) T-285A(U)(S) T-290A(U)(S) T-295A(U)(S) T-298A(U)(S) T-260D(U)(S)  
T-264D(U)(S) T-480A(U)(S) T(D)-485A(U)(S)(X) T(D)-490A(U)(S)(X) T(D)-495A(B)(U)(S)(X) T(D)-498A(U)(S)(X)  
T-460D(U)(S)(X) T-464D(U)(S) T-471D(U)(S) T-680A(U)(S) T-685A(U)(S)(X) T-690A(U)(S)(X) T-695A(U)(S)(X)  
T-698A(U)(S)(X) T-660D(U)(S)(X) T-664D(U)(S) T-671D(U)(S) T-895A(U)(S) P-75A(U) P-80A(U) P-85A(U)  
P-90A(U) P-92A(U) P-95A(U) P-98A(U) P-60D(U) P-64D(U) P-71D(U)

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# 測試報告

# Test Report

號碼(No.): ETR21403852

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頁數(Page): 3 of 8

東莞市吉得塑膠有限公司 (DONG GUAN UGET PLASTICS CO., LTD.)

東莞市橫瀝鎮田坑村第三工業區 (TANKENG 3RD IND. ZONE, HENGLI TOWN, DONGGUAN CITY, CHINA)

## 測試部位敘述 (Test Part Description)

No.1 : 透明塑膠粒 (TRANSPARENT PLASTIC PELLETS)

## 測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9)	參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)		mg/kg	2	n.d.
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6)	參考IEC 62321-4: 2013+ AMD1: 2017 · 以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.)	mg/kg	2	n.d.
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI)) (CAS No.: 18540-29-9)	參考IEC 62321-7-2: 2017 · 以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	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)		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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東莞市橫瀝鎮田坑村第三工業區 (TANKENG 3RD IND. ZONE, HENGLI TOWN, DONGGUAN CITY, CHINA)

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)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	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)		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.
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) (CAS No.: 85-68-7)	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2)		mg/kg	50	n.d.
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)		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.

### 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) ; 小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)

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頁數(Page): 5 of 8

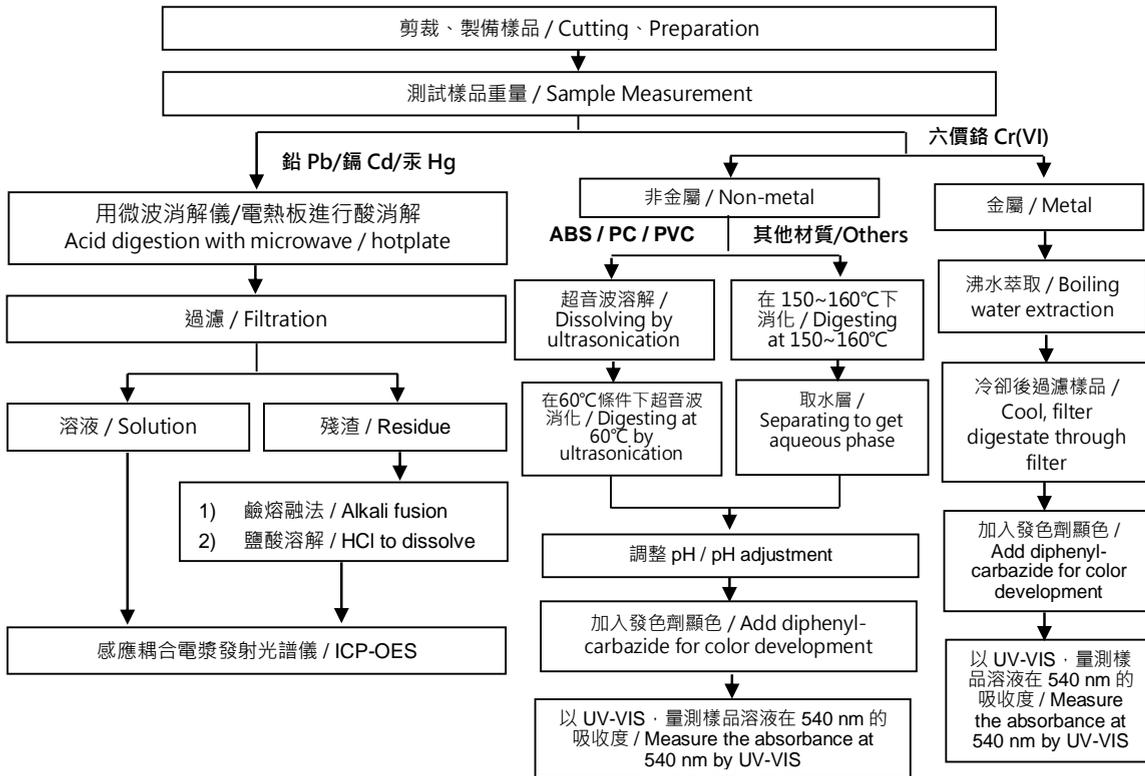
東莞市吉得塑膠有限公司 (DONG GUAN UGET PLASTICS CO., LTD.)

東莞市橫瀝鎮田坑村第三工業區 (TANKENG 3RD IND. ZONE, HENGLI TOWN, DONGGUAN CITY, CHINA)

### 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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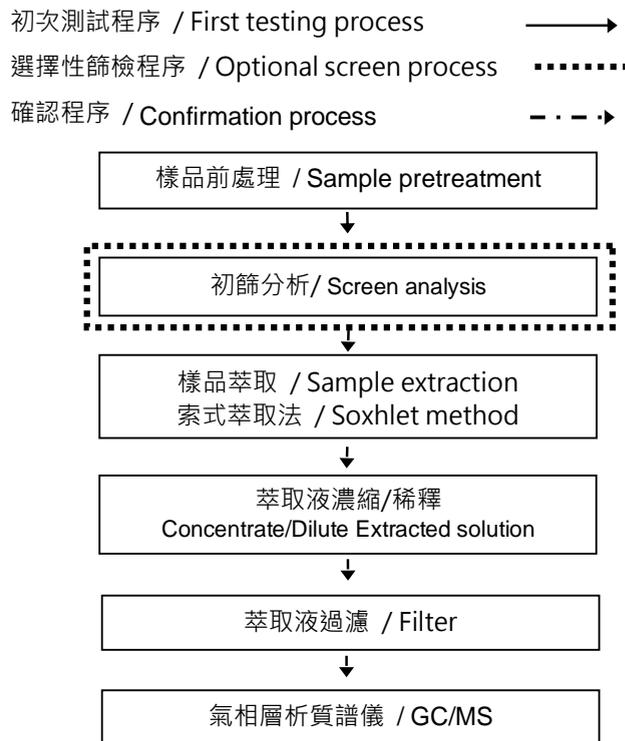
日期(Date): 22-Apr-2021

頁數(Page): 6 of 8

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東莞市橫瀝鎮田坑村第三工業區 (TANKENG 3RD IND. ZONE, HENGLI TOWN, DONGGUAN CITY, CHINA)

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



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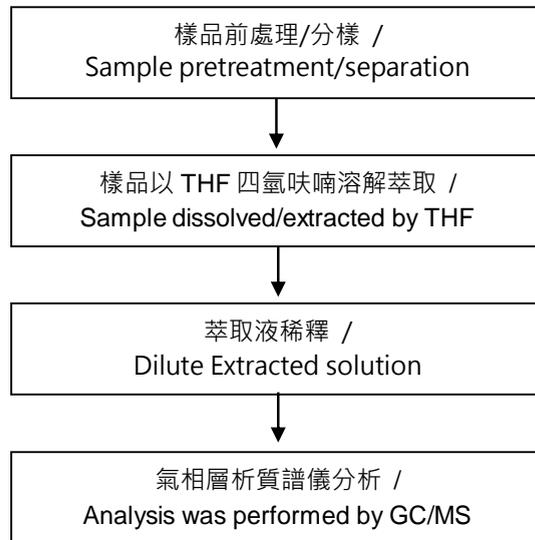
頁數(Page): 7 of 8

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東莞市橫瀝鎮田坑村第三工業區 (TANKENG 3RD IND. ZONE, HENGLI TOWN, DONGGUAN CITY, CHINA)

## 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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日期(Date): 22-Apr-2021

頁數(Page): 8 of 8

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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.)

### ETR21403852



\*\* 報告結尾 (End of Report) \*\*

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