

測試報告 Test Report

報告編號(No.): KU/2020/50102

報告日期(Date): 2020/06/10

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大千國際塑膠開發有限公司
DAK JING CHENG PLASTIC DEVELOPING CO., LTD.
大千工業區五八八號四樓
NO. 588, DINGKUAN 5RD RD, TORNGANG DIST., TAINAN CITY 704, TAIWAN (6002)

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) :

- 樣品名稱(Sample Description) : PET 氣泡水機-瓶身
- 樣品包裝/數量(Sample Package/Quantity) : 請參考報告末頁樣品照片/- (PLEASE REFER TO THE SAMPLE PHOTO AT THE END OF THE REPORT/-)
- 樣品保存方式(Sample Packaging) : 室溫 (ROOM TEMPERATURE)
- 樣品型號(Style/Item No.) : DRINKMATE PET BOTTLE
- 樣品批號(Lot No.) : -
- 樣品材質(Sample Material) : PET
- 送樣廠商(Sample Submitted By) : 大千國際塑膠開發有限公司 DAK JING CHENG PLASTIC DEVELOPING CO., LTD.
- 送樣廠商地址/電話/聯絡人(Company Address/Tel/Contact Person) : 大千工業區五八八號四樓 TORNGANG DIST., TAINAN CITY 704, TAIWAN (6002) 4F
- 製造日期(Manufacturing Date) : 2020
- 有效日期(Expiry Date) : 2-3 年 (2-3 YEARS)
- 原產國(Country of Origin) : 台灣 (TAIWAN)
- 收件日期(Sample Receiving Date) : 2020/05/27
- 測試期間(Testing Period) : 2020/05/27 TO 2020/06/04

測試需求 (Test Requested) :

依據客戶指定，參考中華民國食品器具容器包裝衛生標準 (102.08.20 部授食字第1021350146 號令修正) 進行測試。測試項目請參閱測試結果表格。 / As specified by client, with reference to Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1021350146 amended on 2013/08/20) to conduct test. Please refer to the result table for testing item(s).

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


報告簽署人/張伯春 博士/技術經理
Ray Chang, Ph.D./Manager -Tech
Signed for and on behalf of
SGS Taiwan Limited
化學實驗室-高雄/Chemical Laboratory-Kaohsiung



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SGS TESTING LABORATORY
 SHANGHAI CHONGMING PLASTIC DEVELOPING CO., LTD.
 上海崇明塑料開發有限公司
 NO. 101, SHENYANG RD NO. 101, YONGKANG DIST., TAIWAN CITY TAI, TAIWAN (R.O.C.)

測試結果(Test Results)

測試部位(PART NAME)No.1 : 透明塑膠 (TRANSPARENT PLASTIC)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ/LOD	結果 (Result)	限值 (Limit)
				No. 1	
★鉛 / Lead (Pb)	ppm	食品器具、容器、包裝檢驗方法-聚對苯二甲酸乙二酯(PET)塑膠類之檢驗(107年9月20日衛授食字第1071901823號公告), 以ICP-AES分析. / According to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene Terephthalate (PET) Plastic Products (MOHW Food No. 1071901823 announced, Sep 20, 2018). Analysis was performed by ICP-AES.	5	n.d.	100
★鎘 / Cadmium (Cd)	ppm		0.5	n.d.	100
★鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	%	CNS 15138-1 (民國101年), 以氣相層析/質譜儀檢測. / According to CNS 15138-1 (2012). Analysis was performed by GC/MS.	0.003	n.d.	0.1
★鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)	%		0.003	n.d.	0.1
★鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%		0.003	n.d.	0.1
★鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)	%		0.003	n.d.	0.1
★鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	%		0.01	n.d.	0.1
★鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	%		0.01	n.d.	0.1
★鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)	%		0.003	n.d.	0.1
★鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%		0.003	n.d.	0.1

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SGS TAIWAN LTD.

SHAN JUNG CHEUNG PLASTIC DEVELOPING CO., LTD.

SHAN JUNG CHEUNG PLASTIC DEVELOPING CO., LTD.

NO. 61, KAI-FAN ROAD, NANTZHI EXPORT PROCESSING ZONE, TAINAN CITY 704, TAIWAN (8062)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ/LOD	結果 (Result)	限值 (Limit)
				No. 1	
★高錳酸鉀消耗量-(水, 60 °C, 30 分鐘) / Potassium permanganate consumption- (water, 60 °C, 30 min)	ppm	食品器具、容器、包裝檢驗方法-聚對苯二甲酸乙二酯(PET)塑膠類之檢驗(107 年9月20日衛授食字第1071901823 號公告). / According to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene Terephthalate (PET) Plastic Products (MOHW Food No. 1071901823 announced, Sep 20, 2018).	3	n.d.	10
★蒸發殘渣-(水, 60 °C, 30 分鐘) / Evaporation residue-(water, 60 °C, 30 min)	ppm		10	n.d.	30
★重金屬(以鉛計)-(4% 醋酸, 60 °C, 30 分鐘) / Heavy metal (as Pb)-(4% acetic acid, 60 °C, 30 min)	ppm		-	<1	1
★蒸發殘渣-(4% 醋酸, 60 °C, 30 分鐘) / Evaporation residue-(4% acetic acid, 60 °C, 30 min)	ppm		10	n.d.	30
★銻-(4% 醋酸, 60 °C, 30 分鐘) / Antimony (Sb)-(4% acetic acid, 60 °C, 30 min)	ppm		0.001	n.d.	0.05
★鍺-(4% 醋酸, 60 °C, 30 分鐘) / Germanium (Ge)-(4% acetic acid, 60 °C, 30 min)	ppm		0.001	n.d.	0.1
★蒸發殘渣-(正庚烷, 25 °C, 1 小時) / Evaporation residue-(n-Heptane, 25 °C, 1 hr)	ppm		10	n.d.	30
★蒸發殘渣-(20% 酒精, 60 °C, 30 分鐘) / Evaporation residue-(20% alcohol, 60 °C, 30 min)	ppm		10	n.d.	30

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SGS TESTING LABORATORY
 SHAN JUNG CHEUNG PLASTIC DEVELOPING CO., LTD.
 NO. 101, SHENKANG 3RD RD, YUNKANG DIST, TAINAN CITY 704, TAIWAN (R.O.C.)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ/LOD	結果 (Result)	限值 (Limit)
				No. 1	
★鄰苯二甲酸丁苯甲酯 (正庚烷, 25 °C, 1 小時) / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25 °C, 1 hr)	ppm	食品器具、容器、包裝檢驗方法-塑膠類之檢驗(107年10月4日衛授食字第1071901983號公告), 以氣相層析/質譜儀檢測。 / According to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, Oct 04, 2018). Analysis was performed by GC/MS.	0.05	n.d.	30
★鄰苯二甲酸二丁酯 (正庚烷, 25 °C, 1 小時) / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (n-Heptane, 25 °C, 1 hr)	ppm		0.05	n.d.	0.3
★己二酸二(2-乙基己基)酯 (正庚烷, 25 °C, 1 小時) / DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 103-23-1) (n-Heptane, 25 °C, 1 hr)	ppm		0.05	n.d.	18
★鄰苯二甲酸二(2-乙基己基)酯 (正庚烷, 25 °C, 1 小時) / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (n-Heptane, 25 °C, 1 hr)	ppm		0.05	n.d.	1.5
★鄰苯二甲酸二異癸酯 (正庚烷, 25 °C, 1 小時) / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) (n-Heptane, 25 °C, 1 hr)	ppm		0.5	n.d.	9
★鄰苯二甲酸二異壬酯 (正庚烷, 25 °C, 1 小時) / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) (n-Heptane, 25 °C, 1 hr)	ppm		0.5	n.d.	9

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大中華檢驗科技股份有限公司

DAI CHUNG INSPECTION TECHNOLOGY DEVELOPMENT CO., LTD.

大中華檢驗科技(台灣)有限公司

NO. 101, DINGKUAN 2ND RD, YONGKANG DIST., TAINAN CITY 700, TAIWAN (R.O.C.)

備註(Note) :

1. 檢驗報告僅就委託者之委託事項提供檢驗結果，不對產品合法性做判斷。(The test report merely reflects the test results of the consigned matters of the client and is not a certification of the legitimacy of the related products.)
2. 本報告不得分離或擷錄使用。 / The report is invalid if it is partly reproduced or used.
3. 0.1 wt% = 1000 ppm
4. LOQ = Limit of Quantification (定量極限) ; LOD = Limit of Detection(偵測極限)
5. n.d. = Not Detected (未檢出) = 小於 (less than) LOQ / LOD
6. "-" = Not Regulated (無規格值)
7. 測試項目名稱旁有★者，為本實驗室通過衛生福利部食品藥物管理署認證項目。(The test method marked with ★ is accredited by MOHW.)
8. 測試項目名稱旁有●者，為本實驗室擴充原方法適用基質，非屬食藥署該項認證範圍。(When there is a ● next to the test item, the test method was applied to the material out of the scope from MOHW accreditation.)

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大千國際檢驗科技股份有限公司

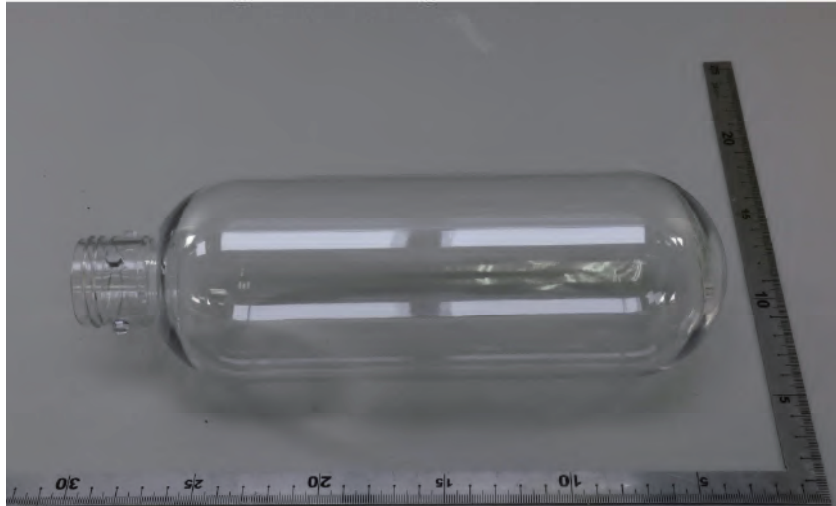
DAI KIN INTERNATIONAL PLASTIC DEVELOPING CO., LTD.

台灣台中市西區民生路100號

NO. 100, DINGKUAN RD RD, XINBEANG DIST, TAINAN CITY 700, TAIWAN (8002)

* 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.)

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** 報告結尾 (End of Report) **

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大中華檢驗科技股份有限公司
 SHAN JUNG CHEUNG PLASTIC DEVELOPING CO., LTD.
 大中華檢驗科技(台灣)有限公司
 NO. 101, SHENKUAN RD RD, YUNKANG DIST, TAINAN CITY 701, TAIWAN (6002)

以下為申請廠商委託測試項目、測試方法、定量/偵測極限：
 (The information requested from client is shown as below :)

KU/2020/50102

測試項目 (Test Items)	測試方法 (Method)	LQ / LOD
★鉛 / Lead (Pb)	食品器具、容器、包裝檢驗方法-聚對苯二甲酸乙二酯 (PET) 塑膠類之檢驗(107 年9月20日衛授食字第1071901823 號公告)，以 ICP-AES分析。 / According to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene Terephthalate (PET) Plastic Products (MOHW Food No. 1071901823 announced, Sep 20, 2018). Analysis was performed by ICP-AES.	
★鎘 / Cadmium (Cd)		
★鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	CNS 15138-1 (民國101年)，以氣相層析/質譜儀檢測。 / According to CNS 15138-1 (2012). Analysis was performed by GC/MS.	詳見測試結果之定量/偵測極限(Please refer to the result table above.)
★鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)		
★鄰苯二甲酸二(2- 乙基己基) 酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		
★鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)		
★鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)		
★鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)		
★鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)		
★鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)		

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大中華檢驗科技股份有限公司
 DAH CHUNG CHECKING PLASTIC DEVELOPING CO., LTD.
 大中華檢驗科技(台灣)有限公司
 NO. 61, KAI-FAN ROAD, NANTZIH EXPORT PROCESSING ZONE, TAINAN CITY 701, TAIWAN (R.O.C.)

KU/2020/50102

測試項目 (Test Items)	測試方法 (Method)	LOQ / LOD
★高錳酸鉀消耗量-(水, 60 °C, 30 分鐘) / Potassium permanganate consumption- (water, 60 °C, 30 min)	食品器具、容器、包裝檢驗方法-聚對苯二甲酸乙二酯 (PET) 塑膠類之檢驗(107 年9月20日衛授食字第1071901823 號公告)。 According to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene Terephthalate (PET) Plastic Products (MOHW Food No. 1071901823 announced, Sep 20, 2018).	詳見測試結果之定量/偵測極限(Please refer to the result table above.)
★蒸發殘渣-(水, 60 °C, 30 分鐘) / Evaporation residue-(water, 60 °C, 30 min)		
★重金屬(以鉛計)-(4% 醋酸, 60 °C, 30 分鐘) / Heavy metal (as Pb)-(4% acetic acid, 60 °C, 30 min)		
★蒸發殘渣-(4% 醋酸, 60 °C, 30 分鐘) / Evaporation residue-(4% acetic acid, 60 °C, 30 min)		
★錫-(4% 醋酸, 60 °C, 30 分鐘) / Antimony (Sb)-(4% acetic acid, 60 °C, 30 min)		
★鍺-(4% 醋酸, 60 °C, 30 分鐘) / Germanium (Ge)-(4% acetic acid, 60 °C, 30 min)		
★蒸發殘渣-(正庚烷, 25 °C, 1 小時) / Evaporation residue-(n-Heptane, 25 °C, 1 hr)		
★蒸發殘渣-(20% 酒精, 60 °C, 30 分鐘) / Evaporation residue-(20% alcohol, 60 °C, 30 min)		

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SGS TESTING LABORATORY
 SHAN JING CHEUNG PLASTIC DEVELOPING CO., LTD.
 台灣檢驗科技股份有限公司
 NO. 61, KAI-FAN ROAD, NANTZIH EXPORT PROCESSING ZONE, TAINAN CITY 701, TAIWAN (8062)

KU/2020/50102

測試項目 (Test Items)	測試方法 (Method)	LOQ / LOD
★鄰苯二甲酸丁苯甲酯 (正庚烷, 25 °C, 1 小時) / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25 °C, 1 hr)	食品器具、容器、包裝檢驗方法- 塑膠類之檢驗(107 年10月4日衛授食字第1071901983 號公告), 以氣相層析/質譜儀檢測。 / According to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, Oct 04, 2018). Analysis was performed by GC/MS.	詳見測試結果之定量/偵測極限(Please refer to the result table above.)
★鄰苯二甲酸二丁酯 (正庚烷, 25 °C, 1 小時) / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (n-Heptane, 25 °C, 1 hr)		
★己二酸二(2- 乙基己基) 酯 (正庚烷, 25 °C, 1 小時) / DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 103-23-1) (n-Heptane, 25 °C, 1 hr)		
★鄰苯二甲酸二(2- 乙基己基) 酯 (正庚烷, 25 °C, 1 小時) / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (n-Heptane, 25 °C, 1 hr)		
★鄰苯二甲酸二異癸酯 (正庚烷, 25 °C, 1 小時) / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) (n-Heptane, 25 °C, 1 hr)		
★鄰苯二甲酸二異壬酯 (正庚烷, 25 °C, 1 小時) / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) (n-Heptane, 25 °C, 1 hr)		

測試項目名稱旁有★者，為本實驗室通過衛生福利部食品藥物管理署認證項目。(The test method marked with ★ is accredited by MOHW.)

測試項目名稱旁有●者，為本實驗室擴充原方法適用基質，非屬食藥署該項認證範圍。(When there is a ● next to the test item, the test method was applied to the material out of the scope from MOHW accreditation.)

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