

# 測試報告 Test Report

報告編號(No.): KU/2020/50103

報告日期(Date): 2020/06/10

頁數(Page) : 1 of 9

大中華檢驗科技股份有限公司  
DAH CHUNG CHEUNG PLASTIC DEVELOPING CO., LTD.  
大中華檢驗科技(高雄)有限公司  
NO. 101, SHENGKANG 1ST RD., YONGKANG DIST., TAINAN CITY 710, 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/on behalf of the applicant as) :

- 樣品名稱(Sample Description) : PET 氣泡水機-噴氣管
- 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) : POM
- 送樣廠商(Sample Submitted By) : 大中華檢驗科技股份有限公司 DAH CHUNG CHEUNG PLASTIC DEVELOPING CO., LTD.
- 送樣廠商地址/ 電話/ 聯絡人(Company Address/Tel/Contact Person) : 大中華檢驗科技(高雄)有限公司 中華路 101 號 10 樓 10101 室, TAINAN CITY 710, TAIWAN (R.O.C.) 中華路
- 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/張伯睿 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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# 測試報告

## Test Report

報告編號(No.): KU/2020/50103

報告日期(Date): 2020/06/10

頁數(Page) : 2 of 9

SGS TESTING LABORATORY  
 SHANGHAI ZHONG CHENG PLASTIC DEVELOPING CO., LTD.  
 上海中成塑料開發有限公司  
 NO. 100, SHENYANG RD NO. 100, YONGKANG DIST., TAIWAN CITY TAI, TAIWAN (R.O.C.)

### 測試結果(Test Results)

測試部位(PART NAME)No.1 : 白色塑膠 (WHITE 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-以甲醛為合成原料之塑膠類檢驗(107年9月20日衛授食字第1071901844號公告)，以ICP-AES分析。 / According to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics with formaldehyde as raw material for synthesis (MOHW Food No. 1071901844 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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# 測試報告

## Test Report

報告編號(No.): KU/2020/50103

報告日期(Date): 2020/06/10

頁數(Page) : 3 of 9

SGS TESTING LABORATORY  
 SHAN JUNG CHEUNG PLASTIC DEVELOPING CO., LTD.  
 NO. 101, SHENKANG 2ND RD., YUNKANG DIST., TAINAN CITY 701, 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	
★酚-(水, 60 °C, 30 分鐘) / Phenol-(water, 60 °C, 30 min)	ppm	食品器具、容器、包裝檢驗方法-以甲醛為合成原料之塑膠類檢驗(107 年9月20日衛授食字第1071901844 號公告)。	2	n.d.	陰性 / Negative
★甲醛-(水, 60 °C, 30 分鐘) / Formaldehyde-(water, 60 °C, 30 min)	ppm	According to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics with formaldehyde as raw material for synthesis (MOHW Food No. 1071901844 announced, Sep 20, 2018).	4	n.d.	陰性 / Negative
★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
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-塑膠類之檢驗(102 年11月13日部授食字第1021950607 號公告)。	3	n.d.	10
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	According to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1021950607 announced, November 13, 2013).	1	<1	1

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# 測試報告

# Test Report

報告編號(No.): KU/2020/50103

報告日期(Date): 2020/06/10

頁數(Page) : 4 of 9

SGS TESTING LABORATORY  
 SHANGHAI ZHONG CHENG PLASTIC DEVELOPING CO., LTD.  
 上海中成塑料開發有限公司  
 NO. 100, SHENYANG RD. NO. 100, YONGKANG DIST., TAINAN CITY 700, 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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# 測試報告

## Test Report

報告編號(No.): KU/2020/50103

報告日期(Date): 2020/06/10

頁數(Page) : 5 of 9

SGS TESTING LABORATORY  
SHAN JING CHEUNG PLASTIC DEVELOPING CO., LTD.  
NO. 101, SHENKANG 1ST RD., YONGKANG DIST., TAINAN CITY 704, 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 = 陰性 (Negative)
6. 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.)
7. 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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報告編號(No.): KU/2020/50103

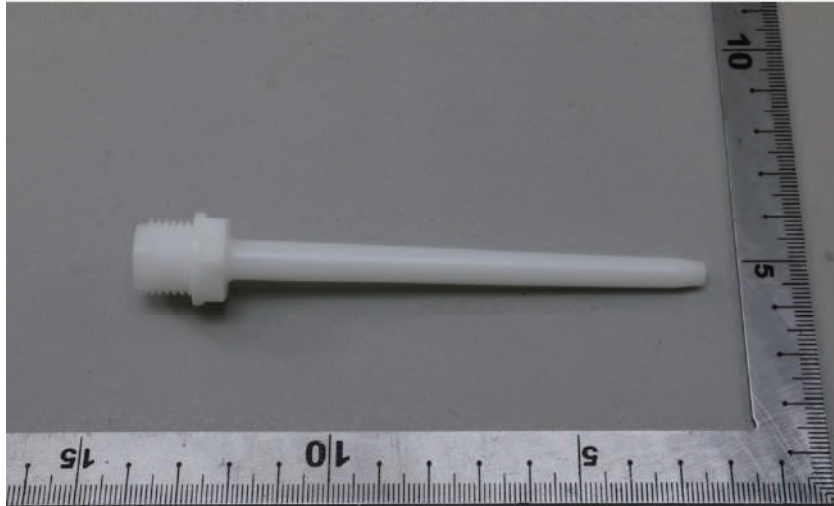
報告日期(Date): 2020/06/10

頁數(Page) : 6 of 9

大中華檢驗科技股份有限公司  
DAI JING CHENG PLASTIC DEVELOPING CO., LTD.  
台灣大中華檢驗科技(高雄)有限公司  
NO. 61, KAI-FAN ROAD, NANTZIH EXPORT PROCESSING ZONE, TAINAN CITY 716, TAIWAN (8062)

\* 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.)

### KU/2020/50103



\*\* 報告結尾 (End of Report) \*\*

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# 測試報告

## Test Report

報告編號(No.): KU/2020/50103

報告日期(Date): 2020/06/10

頁數(Page) : 7 of 9

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 SHIP JING CHEUNG PLASTIC DEVELOPING CO., LTD.  
 NO. 101, SHENKANG 2ND RD, YONGKANG DIST, TAINAN CITY 710, TAIWAN (R.O.C.)

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/2020/50103

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-以甲醛為合成原料之塑膠類檢驗(107年9月20日衛授食字第1071901844號公告)，以ICP-AES分析。 / According to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics with formaldehyde as raw material for synthesis (MOHW Food No. 1071901844 announced, Sep 20, 2018). Analysis was performed by ICP-AES.	詳見測試結果之定量/偵測極限(Please refer to the result table above.)
★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.	
★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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# 測試報告

## Test Report

報告編號(No.): KU/2020/50103

報告日期(Date): 2020/06/10

頁數(Page) : 8 of 9

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 上海中成塑料開發有限公司  
 NO. 100, SHENYANG RD. NO. 100, YONGKANG DIST., TAIWAN CITY TAI, TAIWAN (R.O.C.)

KU/2020/50103

測試項目 (Test Items)	測試方法 (Method)	LOQ / LOD
★酚-(水, 60 °C, 30 分鐘) / Phenol-(water, 60 °C, 30 min)	食品器具、容器、包裝檢驗方法-以甲醛為合成原料之塑膠類檢驗(107年9月20日衛授食字第1071901844號公告)。 / According to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics with formaldehyde as raw material for synthesis (MOHW Food No. 1071901844 announced, Sep 20, 2018).	詳見測試結果之定量/ 偵測極限(Please refer to the result table above.)
★甲醛-(水, 60 °C, 30 分鐘) / Formaldehyde-(water, 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)		
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-塑膠類之檢驗(102年11月13日部授食字第1021950607號公告)。 / According to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1021950607 announced, November 13, 2013).	
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)		
★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.	
★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)		

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# 測試報告

## Test Report

報告編號(No.): KU/2020/50103

報告日期(Date): 2020/06/10

頁數(Page) : 9 of 9

大中華檢驗科技股份有限公司  
 DAH CHUNG CHEUNG PLASTIC DEVELOPING CO., LTD.  
 台灣中興區中興路161號1樓  
 NO. 161, ZHONGXING RD 1FL, YONGKANG DIST., TAINAN CITY 704, TAIWAN (8002)

KU/2020/50103

測試項目 (Test Items)	測試方法 (Method)	LOQ / LCD
★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)	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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