

測試報告

Test Report

報告編號(No.): CT/2020/40085 報告日期(Date): 2020/04/17 頁數(Page) : 1 of 9

欣全實業股份有限公司
KING CAN INDUSTRY CORPORATION
台中市霧峰區中正路561號
561 CHUNG CHENG RD., KEN KOU VILLAGE, WU FONG DIST., TAICHUNG CITY, TAIWAN

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類】塑膠瓶
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.) : 醬油瓶750ml, 820ml, 850ml, 900ml, 1000ml, 1600ml; 風味糖漿瓶; 工研PET瓶; 瓶胚(35g, 38g, 45g, 58g, 62g); 果汁300mlPET瓶
樣品批號(Lot No.) : -
樣品材質(Sample Material) : PET
送樣廠商(Sample Submitted By) : 欣全實業股份有限公司 (KING CAN INDUSTRY CORPORATION)
送樣廠商地址/電話/聯絡人(Company Address/Tel/Contact Person) : -
製造日期(Manufacturing Date) : -
有效日期(Expiry Date) : -
收件日期(Sample Receiving Date) : 2020/04/06
測試期間(Testing Period) : 2020/04/06 TO 2020/04/16

測試需求(Test Requested) :

- (1) 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).
- (2) 依據客戶要求進行測試, 測試項目請參閱測試結果表格. / The test was specified by client, 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).

蕭志祥
蕭志祥 / 副理
化學實驗室-台北
台灣檢驗科技股份有限公司
報告簽署人



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測試結果(Test Results)

測試部位(PART NAME)No.1 : 塑膠瓶 (PLASTIC BOTTLE) (醬油瓶1000ml)

(1)

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
★高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Consumption of potassium permanganate-(water, 95°C, 30 min)	ppm		3	n. d.	10
★蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)	ppm		10	n. d.	30
★重金屬(以鉛計)-(4%醋酸, 95°C, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 95°C, 30 min)	ppm		-	<1	1
★蒸發殘渣-(4%醋酸, 95°C, 30分鐘) / Evaporation residue-(4% acetic acid, 95°C, 30 min)	ppm		10	n. d.	30
★蒸發殘渣-(正庚烷, 25°C, 1小時) / Evaporation residue-(n-Heptane, 25°C, 1 h)	ppm	10	n. d.	30	

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(1)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ/LOD	結果 (Result)	限值 (Limit)
				No. 1	
★錒-(4%醋酸, 95°C, 30分鐘) / Antimony (Sb)-(4% acetic acid, 95°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).	0.001	0.0011	0.05
★鍺-(4%醋酸, 95°C, 30分鐘) / Germanium (Ge)-(4% acetic acid, 95°C, 30 min)	ppm		0.001	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)	%	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
★鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	%		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
★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
★鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)	%		0.003	n. d.	0.1

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(1)

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 h)	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.	1.5
★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 h)	ppm		0.05	n. d.	0.3
★鄰苯二甲酸丁苄甲酯 (正庚烷, 25°C, 1小時) / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 h)	ppm		0.05	n. d.	30
★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 h)	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 h)	ppm		0.5	n. d.	9
★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 h)	ppm		0.05	n. d.	18

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(2)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ/LOD	結果 (Result)	限值 (Limit)
				No. 1	
●三聚氰胺-(4%醋酸, 95°C, 30分鐘) / Melamine-(4% acetic acid, 95°C, 30 min)	ppm	食品器具、容器、包裝檢驗方法-以甲醛- 三聚氰胺為合成原料之塑膠類檢驗(107年9 月20日衛授食字第1071901850號公告), 以 高效能液相層析儀/二極體陣列偵測器 (HPLC/DAD)分析. / According to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics with formaldehyde-melamine as raw material for synthesis (MOHW Food No. 1071901850 announced, Sep 20, 2018). Analysis was performed by HPLC/DAD.	0.5	n. d.	-

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.)
9. 此用途為自主品管報告。(This testing report is subject to independent quality control.)

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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.)

CT/2020/40085



** 報告結尾 (End of Report) **

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 561 CHUNG CHENG RD., KEN KOU VILLAGE, WU FONG DIST., TAICHUNG CITY, TAIWAN

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 :)

CT/2020/40085

測試項目 (Test Items)	測試方法 (Method)	LOQ / 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.	詳見測試結果之定量/偵測極限(Please refer to the result table above.)
★鎘 / Cadmium (Cd)		
★鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No. : 117-81-7)	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)		
★鄰苯二甲酸丁苄甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)		
★鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No. : 117-84-0)		
★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)		
★鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No. : 26761-40-0; 68515-49-1)		
★鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No. : 84-66-2)		

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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 :)

CT/2020/40085

測試項目 (Test Items)	測試方法 (Method)	LOQ / LOD
★高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Consumption of potassium permanganate-(water, 95°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, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)		
★重金屬(以鉛計)-(4%醋酸, 95°C, 30分 鐘) / Heavy metal (as Pb)-(4% acetic acid, 95°C, 30 min)		
★銻-(4%醋酸, 95°C, 30分鐘) / Antimony (Sb)-(4% acetic acid, 95°C, 30 min)		
★鍺-(4%醋酸, 95°C, 30分鐘) / Germanium (Ge)-(4% acetic acid, 95°C, 30 min)		
★蒸發殘渣-(4%醋酸, 95°C, 30分鐘) / Evaporation residue-(4% acetic acid, 95°C, 30 min)		
★蒸發殘渣-(正庚烷, 25°C, 1小時) / Evaporation residue-(n-Heptane, 25°C, 1 h)		
●三聚氰胺-(4%醋酸, 95°C, 30分鐘) / Melamine-(4% acetic acid, 95°C, 30 min)	食品器具、容器、包裝檢驗方法-以甲醛-三聚氰胺為合成原料 之塑膠類檢驗(107年9月20日衛授食字第1071901850號公告) , 以高效能液相層析儀/二極體陣列偵測器(HPLC/DAD)分析。 / According to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics with formaldehyde-melamine as raw material for synthesis (MOHW Food No. 1071901850 announced, Sep 20, 2018). Analysis was performed by HPLC/DAD.	

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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 :)

CT/2020/40085

測試項目 (Test Items)	測試方法 (Method)	LOQ / LOD
★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 h)	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 h)		
★鄰苯二甲酸丁苄甲酯 (正庚烷, 25°C, 1小時) / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7) (n-Heptane, 25°C, 1 h)		
★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 h)		
★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 h)		
★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 h)		

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.)