



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

TEST REPORT

Test Report Number : CGZ3100126-00272-O

CTS (Guangzhou) Testing Service Technology Co., Ltd.

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1 General Information/概況

1.1 Application Details/申請人資料

Name : JAMPO Industrial Co., LTD
 公司名稱 : 燦博實業股份有限公司
 Address : No. 150, lane 1, Sec1, Chang rong Rd., Gueiren Township, Tainan
 County 711 Taiwan
 地址 : 臺灣臺南縣歸仁鄉長榮路一段一巷150號
 Contact : Potsan Weng
 聯絡人 : 翁博燦
 Telephone : +886-6-2781588
 電話 : +886-6-2781588
 Fax : +886-6-2782997
 傳真 : +886-6-2782997
 Mobile telephone : /
 手機 : /
 Email : info@jambo.com.tw
 電郵 : info@jambo.com.tw

1.2 Manufacturer & Buyer/生產商和買家

Manufacturer name : JAMPO Industrial Co., LTD
 生產商 : 燦博實業股份有限公司
 Address : No. 150, lane 1, Sec1, Chang rong Rd., Gueiren Township,
 Tainan County 711 Taiwan
 地址 : 臺灣臺南縣歸仁鄉長榮路一段一巷150號
 Contact : Potsan Weng
 聯絡人 : 翁博燦
 Telephone : +886-6-2781588
 電話 : +886-6-2781588
 Fax : +886-6-2782997
 傳真 : +886-6-2782997
 Mobile telephone : /
 手機 : /
 Email : info@jambo.com.tw
 電郵 : info@jambo.com.tw
 Buyer name : Normal users / customers
 買家 : 一般消費者

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1.3 Description of the Test Item/測試樣品

Sample name : 100% Acrylic solid surface sink
 樣品名稱 : 壓克力實心人造石水槽
 Model No. : JB-450 / JB-230 / JB-880 / JB-430 / JB-780 / JB-460
 樣品型號 : JB-450 / JB-230 / JB-880 / JB-430 / JB-780 / JB-460
 Brand name : JAMBO
 商標 : JAMBO
 Condition of sample(s) : EFFECTIVE
 樣品狀態 : 有效

2 Test Results /測試結果

2.1 General Information/概況

2.1.1 Description of the Sample/樣品描述

Sample name : 100% Acrylic solid surface sink
 樣品名稱 : 壓克力實心人造石水槽
 Model No. : JB-450 / JB-230 / JB-880 / JB-430 / JB-780 / JB-460
 樣品型號 : JB-450 / JB-230 / JB-880 / JB-430 / JB-780 / JB-460
 Brand name : JAMBO
 商標 : JAMBO

2.1.2 Sample Receiving Date/收樣日期

Jan. 26, 2010
 2010年01月26日

2.1.3 Testing Period/測試日期

Jan. 26, 2010 to Apr. 9, 2010
 2010年01月26日至2010年04月09日

2.1.4 Test Requested/測試要求

- 1) As specified by applicant, to determine the Lead, Cadmium, Mercury, Hexavalent Chromium and PBBs & PBDEs content in the submitted sample in accordance with Directive 2002/95/EC (RoHS).
 申請人指定根據 2002/95/EC (RoHS) 指令測試提交樣品的鉛、鎘、汞、六價鉻、多溴聯苯和多溴二苯醚的含量。
- 2) To determine the Phthalates Content for compliance with European Commission 2007/19/EC (2002/72/EC amendment) relating to plastic materials and articles intended to come into contact with foodstuffs.

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與食物接觸的塑料材料及物品是否符合2007/19/EC(2002/72/EC修訂指令)的磷苯二甲酸脂(塑化劑)含量測試。

- 3) To determine the Specific Migration of Phthalates for compliance with European Commission 2002/72/EC and its amendment 2007/19/EC relating to plastic materials and articles intended to come into contact with foodstuffs.

與食物接觸的塑料材料及物品是否符合2007/19/EC(2002/72/EC修訂指令)的磷苯二甲酸脂(塑化劑)特定遷移測試。

- 4) As specified by applicant, to determine the volatile organic compound content in the submitted sample.

申請人指定測試提交樣品中揮發性有機化合物的含量。

- 5) Antibacterial activity testing: Staphylococcus aureus(ATCC 6538), E.coli(ATCC 8739).

抗菌能力測試: 金黃色葡萄球菌(ATCC 6538), 大腸桿菌(ATCC 8739)

- 6) Resistance to fungi testing: Aspergillus niger(ATCC9642), Aureobasidium Pullulans(ATCC15233), Penicillium pinophilum(ATCC11797), Chaetomium globosum(ATCC6205), Trichoderma virens(ATCC9645)

抗真菌能力測試: 黑曲霉菌(ATCC9642), 出芽短梗霉菌(ATCC15233), 嗜松青霉菌(ATCC11797), 球毛殼菌(ATCC6205), 綠色膠霉菌(ATCC9645)

2.1.5 Test Method / 測試方法

- 1) RoHS test method / 測試方法

Test Item(s) 測試項目	Test Method 測試方法
Lead (Pb) 鉛	US EPA3050B
Cadmium (Cd) 鎘	EN1122: 2001B
Mercury (Hg) 汞	US EPA3052
Chromium VI (Cr VI) 六價鉻	US EPA3060A 和 US EPA 7196A
PBBs 多溴聯苯	US EPA3540C
PBDEs 多溴二苯醚	US EPA3540C

- 2) Sample preparation in accordance with ASTM D3421, followed by analysis by GC/MS.

參考ASTM D3421方法處理樣品, 然後用氣相色譜-質譜聯用裝置分析。

- 3) Sample preparation with reference to EN 13130-1: 2004 with selection of stimulant and condition, followed by analysis by GC/MS.

參考標準EN 13130-1: 2004 選擇試液和處理條件對樣品進行處理, 然後用氣相色譜-質譜聯用裝置分析。

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- 4) With reference to ISO 17226:2003, analysis was performed by LC.
 With reference to headspace-GC-FID Method.
 參照ISO 17226:2003, 採用液相色譜法測定
 採用頂空-GC-FID法。
- 5) ISO 22196:2007(E) Plastics-Measurement of Antibacterial Activity on Plastics Surfaces.
 ISO 22196:2007(E) 塑料製品表面抗菌能力評價方法。
- 6) ASTM G21-1996(Reapproved 2002) Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
 ASTM G21-1996 (2002修訂版) 合成高分子材料抗真菌性的測定。

2.2 Results/結果

2.2.1 RoHS test result / RoHS 測試結果

Test Item(s) 測試項目	Unit 單位	Limit 限值	Result 結果				
			No.1	No.2	No.3	No.4	No.5
Lead (Pb) 鉛	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd) 鎘	mg/kg	100	85	N.D.	N.D.	13	N.D.
Mercury (Hg) 汞	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI Chromium(CrVI) 六價鉻	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs(PBBs) 多溴聯苯總和	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromobiphenyl 一溴聯苯	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl 二溴聯苯	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl 三溴聯苯	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromobiphenyl 四溴聯苯	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl 五溴聯苯	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl 六溴聯苯	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl 七溴聯苯	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.

(to be continued)

(承下頁)

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Octabromobiphenyl 八溴聯苯	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl 九溴聯苯	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl 十溴聯苯	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBDEs(PBDEs) 多溴二苯醚總和	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromodiphenyl ether 一溴二苯醚	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl ether 二溴二苯醚	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromodiphenyl ether 三溴二苯醚	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether 四溴二苯醚	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl ether 五溴二苯醚	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl ether 六溴二苯醚	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromodiphenyl ether 七溴二苯醚	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl ether 八溴二苯醚	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl ether 九溴二苯醚	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl ether 十溴二苯醚	mg/kg	---	N.D.	N.D.	N.D.	N.D.	N.D.

- Note/註解 :
- Specimens, which requested to determine Cadmium, Mercury and Lead content, have been dissolved completely.
樣品中要求測定的鎘、汞和鉛含量已完全溶解。
 - N.D. = not detected (less than MDL)
N.D. = 未檢出(小於方法檢出限值)
 - N.A. = not applicable
N.A. = 不適用
 - 1 mg/kg=1 ppm=0.0001%=1 毫克/千克

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2.2.2 Phthalates Content in Plastic Samples/ 塑料樣品中磷苯二甲酸酯(塑化劑)測試

Test Items 測試項目	CAS No. 美國化學文摘登 記號	MDL (mg/kg)	Result 結果	Maximum Permissible Limit 最大允許限值(mg/kg)
			No.1	
Di-n-decyl Phthalate DNDP 磷苯二甲酸正辛正癸酯	84-77-5	30	N.D.	Absent 缺少
n-decyl n-octyl Phthalate 磷苯二甲酸二癸酯 NDNOP	119-07-3	30	N.D.	Absent 缺少
Di-n-octyl Phthalate DNOP 磷苯二甲酸二正辛酯	117-84-0	30	N.D.	Absent 缺少
Di (2-ethylhexyl) Phthalate 磷苯二甲酸二(2-乙基己基) 酯 DEHP	117-81-7	30	98	1000
Dibutyl Phthalate DBP 磷苯二甲酸二丁酯	84-74-2	30	N.D.	500
Diisononyl Phthalate DINP 磷苯二甲酸二異壬酯	68515-48-0	100	N.D.	1000
Diisodecyl Phthalate DIDP 磷苯二甲酸二異癸酯	26761-40-0	100	N.D.	1000
Benzylbutyl Phthalate BBP 磷苯二甲酸苯基丁酯	85-68-7	30	N.D.	1000
Diallyl Phthalate DAP 磷苯二甲酸二烯丙基酯	131-17-9	30	N.D.	Absent 缺少

Note/註解 : 1. N.D. = not detected (less than MDL)
N.D. = 未檢出(小於方法檢出限值)
2. MDL = Method Detection Limit
MDL = 方法檢出限值

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2.2.3 Specific Migration of Phthalates/磷苯二甲酸酯特定遷移測試

Simulant used: Deionized Water
 Test condition: 100 deg. C, 4 hours
 所用模擬試液: 蒸餾水
 測試條件: 100攝氏度, 4小時

Test Items 測試項目	CAS No. 美國化學文 摘登記號	MDL (mg/kg)	Specific Migration 特定遷移量	Maximum Permissible Limit 最大允許限值 (mg/kg)
			No.1	
Di-n-decyl Phthalate DNDP 磷苯二甲酸正辛正癸酯	84-77-5	0.2	N.D.	(Sum of three/三者 之和) 5
n-decyl n-octyl Phthalate 磷苯二甲酸二癸酯 NDNOP	119-07-3	0.4	N.D.	
Di-n-octyl Phthalate DNOP 磷苯二甲酸二正辛酯	117-84-0	0.2	N.D.	
Di (2-ethylhexyl) Phthalate 磷苯二甲酸二(2-乙基己基) 酯 DEHP	117-81-7	0.25	N.D.	1.5
Dibutyl Phthalate DBP 磷苯二甲酸二丁酯	84-74-2	0.05	N.D.	0.3
Diisononyl Phthalate DINP 磷苯二甲酸二異壬酯	68515-48-0	1.5	N.D.	9
Diisodecyl Phthalate DIDP 磷苯二甲酸二異癸酯	26761-40-0	1.5	N.D.	9
Benzylbutyl Phthalate BBP 磷苯二甲酸苯基丁酯	85-68-7	3	N.D.	30
Diallyl Phthalate DAP 磷苯二甲酸二烯丙基酯	131-17-9	0.01	N.D.	0.01

Simulant used: 3% Acetic Acid
 Test condition: 100 deg. C, 4 hours
 所用模擬試液: 3%醋酸
 測試條件: 100攝氏度, 4小時

Test Items 測試項目	CAS No. 美國化學文 摘登記號	MDL (mg/kg)	Specific Migration 特定遷移量	Maximum Permissible Limit 最大允許限值 (mg/kg)
			No.1	
Di-n-decyl Phthalate DNDP 磷苯二甲酸正辛正癸酯	84-77-5	0.2	N.D.	(Sum of three/三者 之和) 5
n-decyl n-octyl Phthalate 磷苯二甲酸二癸酯 NDNOP	119-07-3	0.4	N.D.	
Di-n-octyl Phthalate DNOP 磷苯二甲酸二正辛酯	117-84-0	0.2	N.D.	

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Di (2-ethylhexyl) Phthalate 磷苯二甲酸二(2-乙基己基)酯 DEHP	117-81-7	0.25	N.D.	1.5
Dibutyl Phthalate 磷苯二甲酸二丁酯 DBP	84-74-2	0.05	N.D.	0.3
Diisononyl Phthalate 磷苯二甲酸二異壬酯 DINP	68515-48-0	1.5	N.D.	9
Diisodecyl Phthalate 磷苯二甲酸二異癸酯 DIDP	26761-40-0	1.5	N.D.	9
Benzylbutyl Phthalate 磷苯二甲酸苯基丁酯 BBP	85-68-7	3	N.D.	30
Diallyl Phthalate 磷苯二甲酸二烯丙基酯 DAP	131-17-9	0.01	N.D.	0.01

Simulant used: 95%ethanol
 Test condition: 100 deg. C, 4 hours
 所用模擬試液: 95%酒精
 測試條件: 100攝氏度, 4小時

Test Items 測試項目	CAS No. 美國化學文摘登記號	MDL (mg/kg)	Specific Migration 特定遷移量	Maximum Permissible Limit 最大允許限值 (mg/kg)
			No.1	
Di-n-decyl Phthalate 磷苯二甲酸正辛正癸酯 DNDP	84-77-5	0.2	N.D.	(Sum of three/三者之和) 5
n-decyl n-octyl Phthalate 磷苯二甲酸二癸酯 NDNOP	119-07-3	0.4	N.D.	
Di-n-octyl Phthalate 磷苯二甲酸二正辛酯 DNOP	117-84-0	0.2	N.D.	
Di (2-ethylhexyl) Phthalate 磷苯二甲酸二(2-乙基己基)酯 DEHP	117-81-7	0.25	N.D.	1.5
Dibutyl Phthalate 磷苯二甲酸二丁酯 DBP	84-74-2	0.05	N.D.	0.3
Diisononyl Phthalate 磷苯二甲酸二異壬酯 DINP	68515-48-0	1.5	N.D.	9
Diisodecyl Phthalate 磷苯二甲酸二異癸酯 DIDP	26761-40-0	1.5	N.D.	9
Benzylbutyl Phthalate 磷苯二甲酸苯基丁酯 BBP	85-68-7	3	N.D.	30
Diallyl Phthalate 磷苯二甲酸二烯丙基酯 DAP	131-17-9	0.01	N.D.	0.01

Note/註解 : 1. N.D. = not detected (less than MDL)

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N.D. = 未檢出(小於方法檢出限值)

2. MDL = Method Detection Limit
 MDL = 方法檢出限值

2.2.4 VOC content /揮發性有機化合物的含量

Test Item(s) 測試項目	Test Methods 測試方法	MDL (mg/L)	Result/結果
			No.1
Formaldehyde 甲醛	With reference to ISO 17226:2008, analysis was performed by LC 參照ISO 17226:2003, 採用液相色譜法測定	5	N.D.
Acetaldehyde 乙醛			N.D.
Toluene 甲苯	headspace-GC-MS method 頂空-GC-FID 法	0.1	1.0
Ethylbenzene 乙苯			N.D.
Xylene 二甲苯			N.D.
Styrene 苯乙烯			N.D.
para-dichlorobenzene 對-二氯苯			N.D.

2.2.5 ISO 22196:2007(E) Plastics—Measurement of Antibacterial Activity on Plastics Surfaces/ ISO 22196:2007(E) 塑料製品表面抗菌性能評價方法

Test sample : No.1 測試樣品: No.1

Test Method(s) 測試方法	Test Microorganism 測試菌		Microorganism Count (cfu/mL) 菌液濃度(cfu/mL)		Percent Reduction 減少率
			Zero Time 0小時	24Hours 24小時	
ISO 22196:2009(E)	ATCC 6538 : Staphylococcus Aureus	Test Sample 測試樣	--	1.3×10 ³	96.39%
	ATCC 6538 : 金黃色葡萄球菌	Control Sample 控制樣	2.1×10 ⁵	3.6×10 ⁴	
	ATCC 8739: E. coli ATCC 8739:	Test Sample 測試樣	--	2.6×10 ³	98.27%

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	大腸桿菌	Control Sample 控制樣	1.6×10^5	1.5×10^5	
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2.2.6 ASTM G21-1996(Reapproved 2002) Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi /ASTM G21-1996 (2002 修訂版) 合成高分子材料抗真菌性的測定

Test sample : No.1 測試樣品: No.1

Test Culture 試驗菌株	Concentration of spores(spores/mL) 孢子濃度(孢子數/mL)	Level (after 28 days) 等級(28 天後)
Aspergillus niger(ATCC9642) 黑曲霉(ATCC9642)	2.5×10^6	2Grade 2 級
Aureobasidium Pullulans(ATCC15233) 出芽短梗霉菌(ATCC15233)		
Penicillium pinophilum(ATCC11797) 嗜松青霉菌(ATCC11797)		
Chaetomium Globosum(ATCC6205) 球毛殼(ATCC6205)		
Trichoderma virens(ATCC9645) 綠色膠霉菌(ATCC9645)		

- Note/ 註解 : 1. According to ASTM G21-1996(Reapproved 2002) Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi, observed fungi growth rating on the specimens include:
 0-None
 1-Traces of growth (less than 10%)
 2-Light growth(10 to 30%)
 3-Medium growth (30 to 60%)
 4-Heavy growth (60% to complete coverage)
 依據 ASTM G21-1996 (2002 修訂版) 合成高分子材料抗真菌性的測定，觀察測試樣真菌生長等級：
 0-不生長
 1-痕跡生長(<10%)
 2-輕微生長(10 - 30%)
 3-中度生長(30-60%)
 4-嚴重生長(60%-全面覆蓋)
2. As specified by applicant, the Chinese report is translated from the English report. In the event of any discrepancy, the English version shall prevail.

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根據客戶的申請，中文報告翻譯自英文報告。有任何歧義，請以英文報告為準。

Test Part Description :
 測試部位描述 :

No.1 : 100% Acrylic solid surface sink(orange)
 壓克力實心人造石水槽(橙色)

No.2 : 100% Acrylic solid surface sink(light blue)
 壓克力實心人造石水槽(淺藍色)

No.3 : 100% Acrylic solid surface sink(light green)
 壓克力實心人造石水槽(淺綠色)

No.4 : 100% Acrylic solid surface sink(pink)
 壓克力實心人造石水槽(粉色)

No.5 : 100% Acrylic solid surface sink(white)
 壓克力實心人造石水槽(白色)

Written by/編制人: *Mili* Inspected by/審核人: *Annie* Approved by/批准人: *hyt*

*** End of Report/報告結束***



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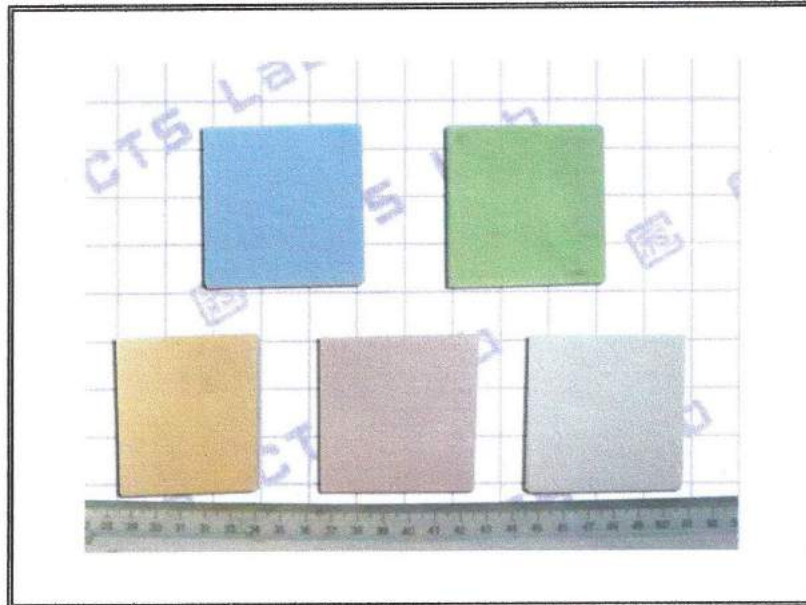
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3 Sample Reference Photo/參考圖片



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