

## 測試報告 Test Report

號碼(No.) : CT/2018/80739

日期(Date) : 2018/09/04

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圖萌思實業有限公司

TWO MOMS CORP., LTD.

台中市南屯區公益路2段61號15樓A1

15F-A1, NO. 61, GONGYI RD., NANTUN DIST., TAICHUNG 40861, 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) :

送樣廠商(Sample Submitted By) : 圖萌思實業有限公司 (TWO MOMS CORP., LTD.)  
樣品名稱(Sample Description) : 2ANGELS SILICONE BABY SPOON (2ANGELS 矽膠餵食湯匙)  
樣品型號(Style/Item No.) : AFS0005  
樣品材質(Sample Material) : SILICONE  
原產國(Country of Origin) : TAIWAN(R. O. C)  
收件日期(Sample Receiving Date) : 2018/08/17  
測試期間(Testing Period) : 2018/08/17 TO 2018/09/04

### 測試需求(Test Requested) :

依據客戶指定，參考德國於2005年9月1日公告的食品、日用品及飼料法(LFGB)第30條與第31條及其修訂案、BfR recommendation進行測試。測試項目請參閱測試結果表格。 / As specified by client, the sample(s) was/were tested with reference to German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, BfR recommendation. Please refer to result table for testing item(s).

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

  
Singh Hsiao / Supervisor  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



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### 測試結果(Test Results)

測試部位(PART NAME) No. 1 : 紫色矽膠 (PURPLE SILICONE)

通過(PASS)

測試項目 (Test Item)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)	限值 (Limit)
				No. 1	
顏色遷移 / Colour release (2%醋酸 / 2% Acetic Acid)	-	參考 Kunststoffe im Lebensmittelverkehr, Part B II IX. / With reference to Kunststoffe im Lebensmittelverkehr, Part B II IX.	-	Negative	No colour release
10%酒精 / 10% Ethanol (70°C, 2 hrs)	%	參考 61. Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 46(2003) 362 / With reference to 61. Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 46(2003) 362.	-	n. d.	0.5
水 / Distilled water (70°C, 2 hrs)	%		-	n. d.	0.5
3%醋酸 / 3% Acetic Acid (70°C, 2 hrs)	%		-	n. d.	0.5
有機揮發物總量 / Volatile organic matter (VOM)	%	參考 61. Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 46(2003) 362. / With reference to 61. Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 46(2003) 362. (200°C, 4hrs)	0.1	0.455	0.5 (□ 7)
鉛 / Lead (Pb)	mg/kg	參考US EPA 3052, 以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	n. d.	Absent
鎘 / Cadmium (Cd)	mg/kg		2	n. d.	Absent
感官測試 (氣味) / Sensorial examination odour	-	參考DIN 10955 (2004) / With reference to DIN 10955 (2004).	-	0.0	2.5
感官測試 (味道) / Sensorial examination taste	-		-	0.0	2.5

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測試項目 (Test Item)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)	限值 (Limit)
				No. 1	
<b>多環芳香煙 / Polycyclic Aromatic Hydrocarbons (PAHs)</b>					
芘 / Acenaphthene (CAS No. : 83-32-9)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n. d.	-
芘烯 / Acenaphthylene (CAS No. : 208-96-8)	mg/kg		0.2	n. d.	-
蒽 / Anthracene (CAS No. : 120-12-7)	mg/kg		0.2	n. d.	-
苯駢蒽 / Benzo[a]anthracene (CAS No. : 56-55-3)	mg/kg		0.2	n. d.	-
苯駢(a)芘 / Benzo[a]pyrene (CAS No. : 50-32-8)	mg/kg		0.2	n. d.	-
苯(b)苯駢芘 / Benzo[b]fluoranthene (CAS No. : 205-99-2)	mg/kg		0.2	n. d.	-
苯駢芘 / Benzo[g,h,i]perylene (CAS No. : 191-24-2)	mg/kg		0.2	n. d.	-
苯(k)苯駢芘 / Benzo[k]fluoranthene (CAS No. : 207-08-9)	mg/kg		0.2	n. d.	-
Chrysene (CAS No. : 218-01-9)	mg/kg		0.2	n. d.	-
二苯駢蒽 / Dibenzo[a,h]anthracene (CAS No. : 53-70-3)	mg/kg		0.2	n. d.	-
苯駢芘 / Fluoranthene (CAS No. : 206-44-0)	mg/kg		0.2	n. d.	-
芘 / Fluorene (CAS No. : 86-73-7)	mg/kg		0.2	n. d.	-
節酮芘 / Indeno[1,2,3-c,d] pyrene (CAS No. : 193-39-5)	mg/kg		0.2	n. d.	-
萘 / Naphthalene (CAS No. : 91-20-3)	mg/kg		0.2	n. d.	-
菲 / Phenanthrene (CAS No. : 85-01-8)	mg/kg		0.2	n. d.	-
芘 / Pyrene (CAS No. : 129-00-0)	mg/kg		0.2	n. d.	-
苯(j)苯駢芘 / Benzo[j]fluoranthene (CAS No. : 205-82-3)	mg/kg		0.2	n. d.	-
苯駢(e)芘 / Benzo[e]pyrene (CAS No. : 192-97-2)	mg/kg		0.2	n. d.	-
<b>多環芳香煙18項總和 / Sum of 18 PAHs</b>	mg/kg	-	n. d.	Note Δ	

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### Remark :

- (□ 7) : 限值是依據BfR Recommendation XV. / Limit is according to BfR Recommendation XV.
- 感官測試之測試條件(Test condition for Sensorial examination) : 70°C, 2hr , 水 / Distilled Water
  - 0 - 沒有明顯差異 / no perceptible difference
  - 1 - 淺顯的差異 / just perceptible difference
  - 2 - 略有差異 / slight difference
  - 3 - 顯著的差異 / marked difference
  - 4 - 極大的差異 / strong difference

### 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 (less than) MDL
4. Negative = No colour release observed ; Positive = Colour release observed.
5. "-" = Not Regulated (無規格值)
6. °C = degree Celsius / 攝氏溫度
7. 測試條件及模擬液是由客戶指定 (Test condition & simulant were specified by client).

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△ 德國產品安全委員會(AfPS) GS PAHs 要求 /

AfPS (German commission for Product Safety): GS PAHs requirements

項目 (Parameter)	第1類(Category 1)	第2類(Category 2)		第3類(Category 3)	
	意圖放入嘴內的材料或玩具會與皮膚有所接觸(超過30秒)。(Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).)	不屬於第1類的材料並可預見與皮膚接觸逾30秒(長期或經常與皮膚接觸)。(Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long-term skin or frequent contact).)		可預見與皮膚接觸短於30秒(短期與皮膚接觸), 以及不屬於第1類或第2類的材料。(Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short-term skin contact).)	
		列於2009/48/EC之玩具 (Toy under 2009/48/EC)	列於德國產品安全法之其他產品 (Other products under ProdSG)	列於2009/48/EC之玩具 (Toy under 2009/48/EC)	列於德國產品安全法之其他產品 (Other products under ProdSG)
Naphthalene	< 1	< 2		< 10	
Acenaphthylene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Acenaphthene					
Fluorene					
Phenanthrene					
Anthracene					
Fluoranthene					
Pyrene					
Benzo[a]anthracene					
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1, 2, 3-c, d] pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a, h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g, h, i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
18項PAH總濃度 (Sum of 18 PAH)	< 1	< 5	< 10	< 20	< 50

單位(Unit) : mg/kg

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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/2018/80739



\*\* 報告結尾 (End of Report) \*\*

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