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測試報告
Test Report

號碼(No.) : CT/2019/10197　　日期(Date) : 2019/01/14　　頁數(Page) : 1 of 6

台灣塑膠工業股份有限公司
FORMOSA PLASTICS CORPORATION
雲林縣麥寮鄉台塑工業園區1號(聚烯部技術處)
FORMOSA INDUSTRIAL PARK NO.1 MAILIAO, YUNLIN COUNTY, 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)	:	台灣塑膠工業股份有限公司 (FORMOSA PLASTICS CORPORATION)
樣品名稱(Sample Description)	:	TAISOX HDPE PIPE GRADE POLYMER (台塑烯HDPE管級聚合物)/ 8001BL
樣品型號(Style/Item No.)	:	8001BL、8001XL、8001CR
樣品批號(Lot No.)	:	-
樣品材質(Sample Material)	:	HDPE
製造日期(Manufacturing Date)	:	-
耐熱溫度(Thermal Resistance Temperature)	:	105℃
收件日期(Sample Receiving Date)	:	2019/01/03
測試期間(Testing Period)	:	2019/01/03 TO 2019/01/14

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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 was amended on 2013/08/20) to conduct test. 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　　:　　黑色塑膠片 (BLACK PLASTIC SHEET (8001BL))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ	結果 (Result) No.1	限值 (Limit)
鉛 / Lead (Pb)	ppm	依據食品器具、容器、包裝檢驗方法-聚乙烯(PE)塑膠類之檢驗(107年9月17日衛授食字第1071901780號公告)，以ICP-AES分析. / According to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene (PE) Plastic Products (MOHW Food No. 1071901780 announced, Sep 17, 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℃, 30分鐘) / Potassium permanganate consumption-(water, 95℃, 30 min)	ppm	依據食品器具、容器、包裝檢驗方法-聚乙烯(PE)塑膠類之檢驗(107年9月17日衛授食字第1071901780號公告). / According to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene (PE) Plastic Products (MOHW Food No. 1071901780 announced, Sep 17, 2018).	3	n.d.	10
蒸發殘渣-(水, 95℃, 30分鐘) / Evaporation residue-(water, 95℃, 30 min)	ppm		10	n.d.	30
蒸發殘渣-(4%醋酸, 95℃, 30分鐘) / Evaporation residue-(4% acetic acid, 95℃, 30 min)	ppm		10	n.d.	30
蒸發殘渣-(正庚烷, 25℃, 1小時) / Evaporation residue-(n-Heptane, 25℃, 1 hr)	ppm		10	n.d.	30 (*1)
蒸發殘渣-(20%酒精, 60℃, 30分鐘) / Evaporation residue-(20% alcohol, 60℃, 30 min)	ppm		10	n.d.	30

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ	結果 (Result) No.1	限值 (Limit)
鄰苯二甲酸二(2-乙基己基)酯 (正庚烷, 25℃, 1小時) / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (n-Heptane, 25℃, 1 hr)	ppm	依據食品器具、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℃, 1小時) / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (n-Heptane, 25℃, 1 hr)	ppm		0.05	n.d.	0.3
鄰苯二甲酸丁苯甲酯 (正庚烷, 25℃, 1小時) / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25℃, 1 hr)	ppm		0.05	n.d.	30
鄰苯二甲酸二異癸酯 (正庚烷, 25℃, 1小時) / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) (n-Heptane, 25℃, 1 hr)	ppm		0.5	n.d.	9
鄰苯二甲酸二異壬酯 (正庚烷, 25℃, 1小時) / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) (n-Heptane, 25℃, 1 hr)	ppm		0.5	n.d.	9
己二酸二(2-乙基己基)酯 (正庚烷, 25℃, 1小時) / DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 103-23-1) (n-Heptane, 25℃, 1 hr)	ppm		0.05	n.d.	18

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	DL	結果 (Result) No.1	限值 (Limit)
重金屬(以鉛計)-(4%醋酸, 95℃, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 95℃, 30 min)	ppm	依據食品器具、容器、包裝檢驗方法-聚乙烯(PE)塑膠類之檢驗(107年9月17日衛授食字第1071901780號公告). / According to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene (PE) Plastic Products (MOHW Food No. 1071901780 announced, Sep 17, 2018).	-	<1	1

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) No.1	限值 (Limit)
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	依據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-octhl 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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備註(Note)：

1. 0.1wt% = 1000ppm
2. LOQ = Limit of Quantification（定量極限）; MDL = Method Detection Limit（方法偵測極限值）; DL = Detection Limit(偵測極限)
3. n.d. = Not Detected（未檢出）= 小於（less than）LOQ / MDL / DL
4. (*1): 針對油脂及脂肪性食品用容器、包裝. (For containers and packages for oils and fatty foods.)
5. "-" = Not Regulated（無規格值）
6. 測試報告僅就委託者之委託事項提供測試結果，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.)

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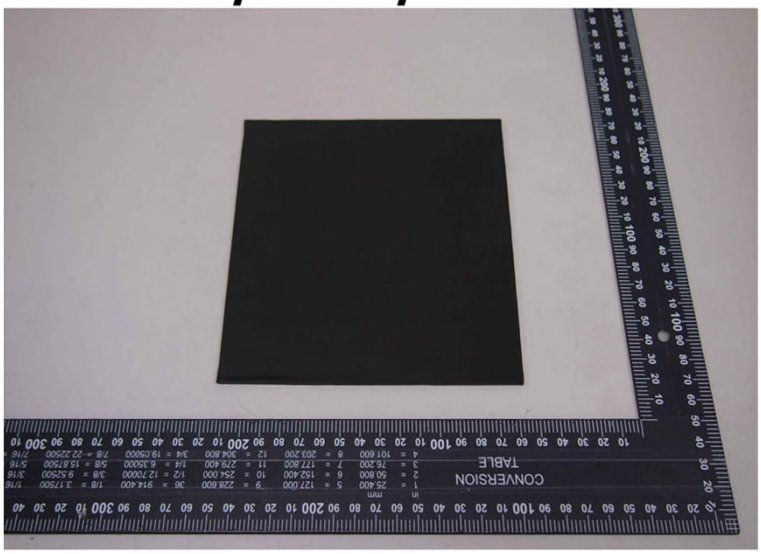
＊ 照片中如有箭頭標示，則表示為實際檢測之樣品/部位. ＊
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CT/2019/10197



** 報告結尾 (End of Report) **

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