以下洞山港口历上西方兴祥

號碼(No.): CE/2008/C1562

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台灣聚合化學品股份有限公司 USI CORPORATION 台北縣林口鄉湖南村頭湖89號 NO. 89, TOU-HU HU-NAN VILLAGE, LINKOU SHIANG, TAIPEI HSIEN, TAIWAN

樣品名稱(Sample Description) 樣品型號(Style/Item No.)	<ul> <li>: 乙烯醋酸乙烯酯共聚合物 (ETHYLENE-VINYL ACETATE COPOLYMER (EVA))</li> <li>: UE629; UE630; UE631; UE632; UE659; UE508; UE510; UE612-04; UE633; UE638-04; UE639-04; UE649-04; UE653-04; UE634-04; UE654-04; UE647-04; UE3330; UE2818</li> </ul>		
收件日期(Sample Receiving Date) 測試期間(Testing Period)	<ul> <li>2008/12/05</li> <li>2008/12/05 TO 2008/12/12</li> </ul>		
/观 級, 州 町 (Testing Period)	: 2008/12/03 10 2008/12/12		
測試需求(Test Requested) :	參照 RoHS 2002/95/EC 及其修定指令要求. (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).		
测试方法(Test Method) :	<ul> <li>參考IEC 62321/2nd CDV (111/95/CDV)方法檢測. (With reference to IEC 62321/2nd CDV (111/95/CDV). Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).</li> <li>(1) 用感應藕合電漿原子發射光譜儀檢測鎬含量. / Determination of Cadmium by ICP-AES.</li> <li>(2) 用感應藕合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AES.</li> <li>(3) 用感應藕合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.</li> <li>(4) 針對非金屬材質之樣品,用UV-VIS檢測六價鉻含量. / Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.</li> <li>(5) 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量. / Determination of PBB and PBDE by GC/MS.</li> </ul>		
測試結果(Test Results) :	請見下一頁 (Please refer to next pages).		
結論(Conclusion) :	根據客户所提供樣品的測試結果, <b>符合</b> RoHS(2002/95/EC)及其修定指令之要求 (Based on the performed tests on submitted samples, the test results ar compliant with the limits of RoHS Directive 2002/95/EC and its subsequent amendments).		

Chenyu Kung / Operation Manager Signed for and on behalf of SGS TAIWAN LTD. Chemical Laboratory – Taipei

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### 測試結果(Test Results) 單位(Unit): mg/kg

測試項目	測試方法 Method	結果 (Result)	方法偵測 極限値	RoHS 限值
(Test Items)	(Refer to)	No.1	(MDL)	(Limit)
鎬 / Cadmium (Cd)	(1)	n.d.	2	100
鉛 / Lead (Pb)	(2)	n.d.	2	1000
汞 / Mercury (Hg)	(3)	n.d.	2	1000
六價鉻 / Hexavalent Chromium Cr(VI) by	(4)	n.d.	2	1000
alkaline extraction				
多溴聯苯總和 / Sum of PBBs		n.d.	-	1000
一溴聯苯 / Monobromobiphenyl		n.d.	5	-
二溴聯苯 / Dibromobiphenyl		n.d.	5	-
三溴聯苯 / Tribromobiphenyl		n.d.	5	-
四溴聯苯 / Tetrabromobiphenyl		n.d.	5	-
五溴聯苯 / Pentabromobiphenyl		n.d.	5	-
六溴聯苯 / Hexabromobiphenyl		n.d.	5	-
七溴聯苯 / Heptabromobiphenyl		n.d.	5	-
八溴聯苯 / Octabromobiphenyl		n.d.	5	-
九溴聯苯 / Nonabromobiphenyl		n.d.	5	-
十溴聯苯 / Decabromobiphenyl		n.d.	5	-
多溴聯苯醚總和 / Sum of PBDEs	(5)	n.d.	-	1000
一溴聯苯醚 / Monobromodiphenyl ether		n.d.	5	-
二溴聯苯醚 / Dibromodiphenyl ether		n.d.	5	-
三溴聯苯醚 / Tribromodiphenyl ether		n.d.	5	-
四溴聯苯醚 / Tetrabromodiphenyl ether		n.d.	5	-
五溴聯苯醚 / Pentabromodiphenyl ether		n.d.	5	-
六溴聯苯醚 / Hexabromodiphenyl ether		n.d.	5	-
七溴聯苯醚 / Heptabromodiphenyl ether		n.d.	5	-
八溴聯苯醚 / Octabromodiphenyl ether		n.d.	5	-
九溴聯苯醚 / Nonabromodiphenyl ether		n.d.	5	-
十溴聯苯醚 / Decabromodiphenyl ether		n.d.	5	-

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### 测试部位描述 (TEST PART DESCRIPTION):

NO.1 : 半透明色塑膠粒 (TRANSLUCENT PLASTIC PELLETS)

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)

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銀 / Silver

塑膠 / Plastic

其他 / Others

台灣檢驗科技股份有限公司 Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五權路33號 t + 886 (02)2299 3279 f + 886 (02)2299 3273 vww.sgs.com

#### Member of the SGS Group (SGS SA)

儀,量測樣品溶液在 540 nm 的吸收度 /

absorbance at 540 nm

measure the

by UV-VIS

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硫酸, 雙氧水, 硝酸, 鹽酸 /

H2SO4, H2O2, HNO3, HCI

加入任何酸至完全溶解 /

Any acid to total digestion

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硝酸 / HNO3

硝酸/鹽酸/氫氟酸的微波消化 / 依據不同樣品的材質而以適當的酸進行消 添加適量消化液 / Add appropriate amount of 化(如下表所示) / Acid digestion by suitable Microwave digestion with digestion reagent acid depended on different sample HNO<sub>3</sub>/HCI/HF material (as below table) 加熱至適當溫度進行消 過濾 / Filtration 化萃取 / Heat to appropriate 殘渣 / Residue temperature to extract 溶液 / Solution 1) 鹼熔融法 / Alkali Fusion 冷卻後過濾樣品 / 2) 鹽酸溶解 / Cool, filter digestate HCI to dissolve through filter 感應藕合電漿原子發射光譜儀 / ICP-AES 樣品材質 / Sample Material 消化酸液種類 / Digestion Acid 加入發色劑顯色 / Add 鋼, 銅, 鋁, 焊錫 / diphenyl-carbazide for 王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / color development Steel, copper, aluminum, solder Aqua regia, HNO<sub>3</sub>, HCI, HF, H<sub>2</sub>O<sub>2</sub> 玻璃 / Glass 硝酸,氫氟酸 / HNO₃/HF 金, 鉑, 鈀, 陶瓷 / 王水 / Aqua regia Gold, platinum, palladium, ceramic 以紫外光-可見光光譜

1) 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were

dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)

汞 Hg

2) 测試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang

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NO. 89, TOU-HU HU-NAN VILLAGE, LINKOU SHIANG, TAIPEI HSIEN, TAIWAN

剪裁、製備樣品 / Cutting、Preparation

測試樣品重量 / Sample Measurement

鉛Pb、鎬Cd

3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

測試報告 **Test Report** 

台灣聚合化學品股份有限公司

台北縣林口鄉湖南村頭湖89號

USI CORPORATION



六價鉻 Cr<sup>6+</sup>

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### 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

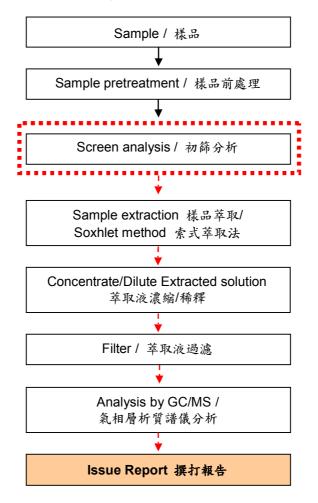
1) 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong

2) 測試負責人:陳新智 / Name of the person in charge of measurement: Shinjyh Chen

初次測試程序 / First testing process \_\_\_\_

選擇性篩檢程序 / Optional screen process ......

確認程序 / Confirmation process \_.\_ ▶



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\*\* 報告結尾(End of Report) \*\*

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