

測試報告 **Test Report** 

號碼(No.): CE/2009/A5860 日期(Date): 2009/11/06 頁數(Page): 1 of 9

全科企業股份有限公司 PANTECH TAPE CO., LTD. 桃園縣楊梅鎮中山南路800巷98弄8號 NO. 8, ALLEY 98, LANE 800, CHUNG-SHAN SOUTH ROAD, YANGMEI, TAOYUAN 32669, TAIWAN

以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description)	:	PET保護膜(PET PROTECTION TAPE)
樣品型號(Style/Item No.)	:	BS100/BSC100, BS100T/BSC100T, NS100/NSC100, NS100T/NSC100T,
		BS50/BSC50, BS50T/BSC50T, NS50/NSC50, NS50T/NSC50T
收件日期(Sample Receiving Date)	:	2009/10/30
測試期間(Testing Period)	:	2009/10/30 TO 2009/11/06

\_\_\_\_\_

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明,此報告結果僅對測試之樣品負責。本報告未經本公司書面許可,不可部分複製。 This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms\_and\_conditions.htm. Attention

is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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 www.sgs.com



號碼(No.): CE/2009/A5860 日期(Date): 2009/11/06 頁數(Page): 2 of 9

全科企業股份有限公司 PANTECH TAPE CO., LTD. 桃園縣楊梅鎮中山南路800巷98弄8號 NO. 8, ALLEY 98, LANE 800, CHUNG-SHAN SOUTH ROAD, YANGMEI, TAOYUAN 32669, TAIWAN

#### <u>測試結果(Test Results)</u>

測試部位(PART NAME) NO.1

: 透明色塑膠膜(含離型膜)(TRANSPARENT PLASTIC FILM (INCLUDING THE RELEASE FILM))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鎬 / Cadmium (Cd)	mg/kg	参考IEC 62321: 2008方法,以感應 藕合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 以感應 藕合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法,以感應 藕合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321: 2008方法,以UV- VIS檢測. / With reference to IEC 62321: 2008 and performed by UV- VIS.	2	n.d.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明,此報告結果僅對測試之樣品負責。本報告未經本公司書面許可,不可部分複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms\_and\_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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 www.sgs.com

SG

號碼(No.): CE/2009/A5860 日期(Date): 2009/11/06 頁數(Page): 3 of 9

全科企業股份有限公司 PANTECH TAPE CO., LTD.

桃園縣楊梅鎮中山南路800巷98弄8號

NO. 8, ALLEY 98, LANE 800, CHUNG-SHAN SOUTH ROAD, YANGMEI, TAOYUAN 32669, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
多苯環芳香族化合物 / Polynuclear Aromatic Hydrocarbons (PAHs)				
Acenaphthene (CAS No.: 000083-32-9)			0.2	n.d.
Acenaphthylene (CAS No.: 000208-96-8)			0.2	n.d.
Anthracene (CAS No.: 000120-12-7)		參考ZLS standard ZEK 01.2-08方 法,以氣相層析質譜儀(GC/MS)檢測.	0.2	n.d.
Benzo[a]anthracene (CAS No.: 000056- 55-3)			0.2	n.d.
Benzo[a]pyrene (CAS No.: 000050-32-8)			0.2	n.d.
Benzo[b]fluoranthene (CAS No.: 000205- 99-2)			0.2	n.d.
Benzo[g,h,i]perylene (CAS No.: 000191- 24-2)			0.2	n.d.
Benzo[k]fluoranthene (CAS No.: 000207- 08-9)			0.2	n.d.
Chrysene (CAS No.: 000218-01-9)	mg/kg	/ With reference to ZLS standard	0.2	n.d.
Dibenzo[a,h]anthracene (CAS No.: 000053-70-3)		ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Fluoranthene (CAS No.: 000206-44-0)			0.2	n.d.
Fluorene (CAS No.: 000086-73-7)	-		0.2	n.d.
Indeno[1,2,3-c,d] pyrene (CAS No.: 000193-39-5)			0.2	n.d.
Naphthalene (CAS No.: 000091-20-3)			0.2	n.d.
Phenanthrene (CAS No.: 000085-01-8)			0.2	n.d.
Pyrene (CAS No.: 000129-00-0)			0.2	n.d.
多苯環芳香族化合物16項總和 / Sum of 16 PAHs			-	n.d.

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 www.sgs.com

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明,此報告結果僅對測試之樣品負責。本報告未經本公司書面許可,不可部分複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms\_and\_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

號碼(No.): CE/2009/A5860 日期(Date): 2009/11/06 頁數(Page): 4 of 9

全科企業股份有限公司

PANTECH TAPE CO., LTD.

桃園縣楊梅鎮中山南路800巷98弄8號

NO. 8, ALLEY 98, LANE 800, CHUNG-SHAN SOUTH ROAD, YANGMEI, TAOYUAN 32669, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
多溴聯苯總和 / Sum of PBBs			-	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.
七溴聯苯 / Heptabromobiphenyl		參考IEC 62321: 2008方法, 以氣相	5	n.d.
八溴聯苯 / Octabromobiphenyl	1		5	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.
十溴聯苯 / Decabromobiphenyl	/1	層析儀/質譜儀檢測. / With	5	n.d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	reference to IEC 62321: 2008 and	-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether		performed by GC/MS.	5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	1		5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	-		5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.

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)
  - 5. 樣品的測試是基於申請人要求混合測試,報告中的混合測試結果不代表其中個别單一材質的含量.
    (The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明,此報告結果僅對測試之樣品負責。本報告未經本公司書面許可,不可部分複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms\_and\_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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 3237 www.sgs.com

號碼(No.): CE/2009/A5860 日期(Date): 2009/11/06 頁數(Page): 5 of 9

全科企業股份有限公司 PANTECH TAPE CO., LTD. 桃園縣楊梅鎮中山南路800巷98弄8號 NO. 8, ALLEY 98, LANE 800, CHUNG-SHAN SOUTH ROAD, YANGMEI, TAOYUAN 32669, TAIWAN

#### <u> 参考資料(Reference information) :</u> 依據ZEK 01.2-08之要求:產品中最大值為

(Requirement of ZEK 01.2-08 : Restraining maximum values for products)

項目 (Parameter)	第1類 (Category 1)	第2類 (Category 2)	第3類 (Category 3)	
	與食品接觸或放入嘴内的	持續地(長時間)與皮膚接	暫時地(短時間)與皮膚接	
	材料,以及給三歲以下的	觸逾30秒,以及不屬第1	觸但不逾30秒或不會與	
	幼兒使用的玩具.	類的玩具.	皮膚接觸.	
	(Materials in contact	(Materials with	(Materials with	
	with foodstuff or	foreseeable skin	foreseeable skin	
	materials which are	contact >30 s	contact <30 s (short	
	meant to put in the	(prolonged skin	time skin contact) or	
	mouth as well as toys	contact) and toys not	without skin contact.)	
	for children <36	covered by category 1.)		
	months.)			
苯駢(a)芘			2.0	
Benzo[a]pyrene (mg/kg)	<mdl (<0.2)**<="" td=""><td>1</td><td colspan="2">20</td></mdl>	1	20	
環保署規範16項PAH				
總濃度 (Sum of 16	<mdl (<0.2)**<="" td=""><td>10</td><td>200</td></mdl>	10	200	
EPA-PAH) (mg/kg)*				

注意(Remark): \* = PAH濃度大於0.2mg/kg時,則須計算PAH總濃度值

(Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs)

\*\* = 最大濃度值超出等級一的限制,但在等級二的濃度限制值内時,可能需要確認測試材質 是否合適於食品容器或是依照DIN EN1186ff/ §64 LFGB 80.30-1方法,針對特定PAH的 遷移測試進行測試。遷移測試的結論需依照食品法規規範

(In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material for contact with foodstuff or oral mucosa by additional specific migration tests of PAH components based on DIN EN 1186ff and  $\S$  64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.)

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明,此報告結果僅對測試之樣品負責。本報告未經本公司書面許可,不可部分複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms\_and\_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

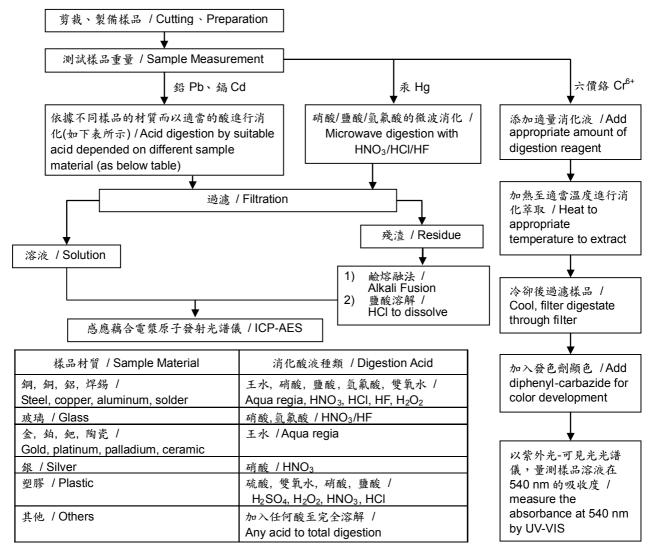
台灣檢驗科技股份有限公司 Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五權路33號 t + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com



號碼(No.): CE/2009/A5860 日期(Date): 2009/11/06 頁數(Page): 6 of 9

全科企業股份有限公司 PANTECH TAPE CO., LTD. 桃園縣楊梅鎮中山南路800巷98弄8號 NO. 8, ALLEY 98, LANE 800, CHUNG-SHAN SOUTH ROAD, YANGMEI, TAOYUAN 32669, TAIWAN

- 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)
- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明,此報告結果僅對測試之樣品負責。本報告未經本公司書面許可,不可部分複製

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

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms\_and\_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



號碼(No.): CE/2009/A5860 日期(Date): 2009/11/06 頁數(Page): 7 of 9

全科企業股份有限公司 PANTECH TAPE CO., LTD. 桃園縣楊梅鎮中山南路800巷98弄8號 NO. 8, ALLEY 98, LANE 800, CHUNG-SHAN SOUTH ROAD, YANGMEI, TAOYUAN 32669, TAIWAN

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

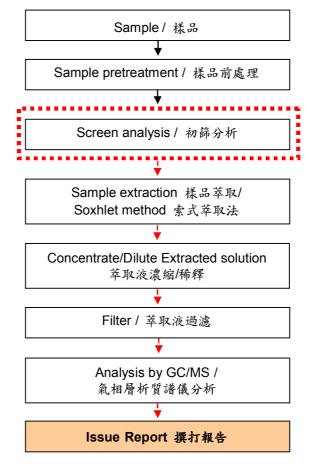
1) 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong

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 \_... ▶



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明,此報告結果僅對測試之樣品負責。本報告未經本公司書面許可,不可部分複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms\_and\_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Taiwan I to

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 www.sgs.com



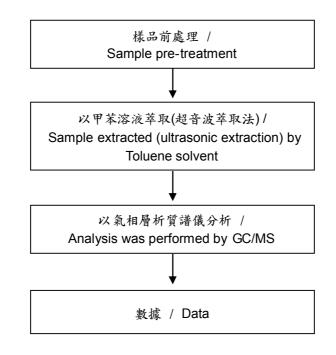
號碼(No.): CE/2009/A5860 日期(Date): 2009/11/06 頁數(Page): 8 of 9

全科企業股份有限公司 PANTECH TAPE CO., LTD. 桃園縣楊梅鎮中山南路800巷98弄8號 NO. 8, ALLEY 98, LANE 800, CHUNG-SHAN SOUTH ROAD, YANGMEI, TAOYUAN 32669, TAIWAN

### 多苯環芳香族化合物分析流程圖 /

#### PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

- 1) 測試人員:徐毓明 / Name of the person who made measurement: Andy Shu
- 2) 測試負責人:陳新智 / Name of the person in charge of measurement: Shinjyh Chen



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明,此報告結果僅對測試之樣品負責。本報告未經本公司書面許可,不可部分複製。 This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms\_and\_conditions.htm. Attention

is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

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 3237 www.sgs.com



號碼(No.): CE/2009/A5860 日期(Date): 2009/11/06 頁數(Page): 9 of 9

#### 

全科企業股份有限公司 PANTECH TAPE CO., LTD. 桃園縣楊梅鎮中山南路800巷98弄8號 NO. 8, ALLEY 98, LANE 800, CHUNG-SHAN SOUTH ROAD, YANGMEI, TAOYUAN 32669, TAIWAN



\*\* 報告結尾(End of Report) \*\*

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明,此報告結果僅對測試之樣品負責。本報告未經本公司書面許可,不可部分複製。 This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms\_and\_conditions.htm. Attention

is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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 www.sgs.com