

## 測試報告 Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 1 of 23


南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION  
台灣台北市敦化北路201號  
201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



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

樣品名稱(Sample Description) : COPPER CLAD LAMINATES  
樣品型號(Style/Item No.) : UV BLOCK FR-4-86/NP-140TL/NP-140B  
買主/訂單號碼(Buyer/Order No.) : 8706254u  
收件日期(Sample Receiving Date) : 2008/07/09  
測試期間(Testing Period) : 2008/07/09 TO 2008/07/15

=====  
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，不可部份複製。

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](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.

# 測試報告

## Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 2 of 23

南亞塑膠工業股份有限公司  
 NAN YA PLASTICS CORPORATION  
 台灣台北市敦化北路201號  
 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



### 測試結果(Test Results)

測試部位(PART NAME) NO.1 : 黃色基板 (YELLOW LAMINATES)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV) 方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鎘含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV) 方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鉛含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV) 方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測汞含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV) 方法檢測, 用UV-VIS檢測六價鉻含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium samples by UV-Vis Spectrometry.	2	n.d.
鈹 / Beryllium (Be)	mg/kg	參考US EPA 3050B 方法, 用感應耦合電漿原子發射光譜儀檢測鈹含量. / With reference to US EPA Method 3050B for Beryllium Content. Analysis was performed by ICP-AES.	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, 不可部份複製。

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](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.

# 測試報告

## Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 3 of 23

南亞塑膠工業股份有限公司  
 NAN YA PLASTICS CORPORATION  
 台灣台北市敦化北路201號  
 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
多氯聯苯 / Polychlorinated Biphenyls (PCBs) (CAS No.: 001336-36-3)	mg/kg	參考US EPA 3540C方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.
多氯三聯苯 / Polychlorinated Terphenyls (PCTs)	mg/kg	參考US EPA 3540C方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.
多氯萘 / Polychlorinated Naphthalene (PCNs)	mg/kg	參考US EPA 3540C方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.
氯化石蠟 / Chlorinated Paraffin (C10~C13) (CAS No.: 010871-26-2)	%	參考US EPA 3540C方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.01	n.d.
聚氯乙烯 / PVC	**	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	-	Negative
福馬林 (甲醛) / Formaldehyde (CAS No.: 000050-00-0)	mg/kg	參考DIN 53315方法, 以高效液相層析儀/二極體陣列偵測器檢測. / With reference to DIN 53315. Analysis was performed by HPLC/DAD.	3	n.d.
2-(3', 5'-二叔丁基-2'-羟基苯基)苯并三氮唑 / 2-(3,5-di-tert-butyl-2-hydroxyphenyl)-2H-benzotriazole (CAS No.: 3846-71-7)	mg/kg	參考US EPA 3540方法, 以高效液相層析儀檢測之. / With reference to US EPA 3540 method. Analysis was performed by HPLC.	5	n.d.
全氟辛磺酸 / PFOS	mg/kg	參考US EPA 3540C : 1996方法, 以液相層析質譜儀檢測全氟辛磺酸含量. / With reference to US EPA 3540C : 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	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, 不可部份複製。

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](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.

# 測試報告

## Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 4 of 23

南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION

台灣台北市敦化北路201號

201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
全氟辛酸(銨) / PFOA	mg/kg	參考US EPA 3540C : 1996方法, 以液相層析質譜儀檢測全氟辛酸(銨)含量。 / With reference to US EPA 3540C : 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.
鹵素 / Halogen	---	參考BS EN 14582:2007, 以離子層析儀分析氟, 氯, 溴, 碘含量。 / With reference to BS EN 14582:2007. Analysis was performed by IC method for F, Cl, Br, I content.	---	---
鹵素(氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析氟含量。 / With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	515
鹵素(氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析氯含量。 / With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	561
鹵素(溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析溴含量。 / With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	93000
鹵素(碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析碘含量。 / With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content.	50	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, 不可部份複製。

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](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.

# 測試報告

## Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 5 of 23

南亞塑膠工業股份有限公司  
 NAN YA PLASTICS CORPORATION  
 台灣台北市敦化北路201號  
 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
<b>多溴聯苯總和 / Sum of PBBs</b>	mg/kg	參考 IEC 62321/2nd CDV (111/95/CDV) 方法, 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	-	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			5	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.
<b>多溴聯苯醚總和 / Sum of PBDEs</b>			-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			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.		
<b>石棉 / Asbestos</b>	---	---	---	---
棕石棉 / Amosite (CAS No.: 012172-73-5)	%	參考NIOSH 9000 / X光繞射定性分析法 (XRD) / As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
白石棉 / Chrysotile (CAS No.: 012001-29-5)	%	參考NIOSH 9000 / X光繞射定性分析法 (XRD) / As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
青石棉 / Crocidolite (CAS No.: 012001-28-4)	%	參考NIOSH 9000 / X光繞射定性分析法 (XRD) / As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative

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, 不可部份複製。

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](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.

## 測試報告 Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 6 of 23

南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION

台灣台北市敦化北路201號

201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
斜方角閃石 / Anthophyllite (CAS No.: 017068-78-9)	%	參考NIOSH 9000 / X光繞射定性分析法 (XRD) / As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
透閃石 / Tremolite (CAS No.: 014567-73-8)	%	參考NIOSH 9000 / X光繞射定性分析法 (XRD) / As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
陽起石 / Actinolite (CAS No.: 013768-00-8)	%	參考NIOSH 9000 / X光繞射定性分析法 (XRD) / As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
<b>有機錫 / Organic-tin compounds</b>	---	---	---	---
三苯基錫 / Triphenyl Tin (TphT) (CAS No.: 000668-34-8)	mg/kg	本測試參考DIN 38407-13方法, 以氣相層析儀/火焰光度偵測器檢測. / With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.
三丁基錫 / Tributyl Tin (TBT) (CAS No.: 000688-73-3)	mg/kg	本測試參考DIN 38407-13方法, 以氣相層析儀/火焰光度偵測器檢測. / With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.
<b>偶氮 (AZO)</b>	---	---	---	---
1): 4-氨基二苯 / 4-AMINODIPHENYL (CAS No.: 000092-67-1)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
2): 聯苯胺 / BENZIDINE (CAS No.: 00092-87-5)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
3): 4-氯鄰甲苯胺 / 4-CHLORO-O-TOLUIDINE (CAS No.: 000095-69-2)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	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, 不可部份複製。

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](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.

# 測試報告

## Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 7 of 23

南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION

台灣台北市敦化北路201號

201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
4): 2-萘胺 / 2-NAPHTHYLAMINE (CAS No.: 000091-59-8)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
5): 鄰氨基二甲基偶氮 / O-AMINOAZOTOLUENE (CAS No.: 000097-56-3)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
6): 對硝基鄰甲苯胺 / 2-AMINO-4-NITROTOLUENE (CAS No.: 000099-55-8)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
7): 對氯苯胺 / P-CHLOROANILINE (CAS No.: 000106-47-8)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
8): 4-甲氧基-間苯二胺 / 2,4-DIAMINOANISOLE (CAS No.: 000615-05-4)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
9): 4,4'-二氨基二苯甲烷 / 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000101-77-9)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
10): 3,3'-二氯聯苯胺 / 3,3'-DICHLOROBENZIDINE (CAS No.: 000091-94-1)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
11): 3,3'-二甲氧基聯苯胺 / 3,3'-DIMETHOXYBENZIDINE (CAS No.: 000119-90-4)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	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, 不可部份複製。

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](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.

# 測試報告

## Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 8 of 23

南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION

台灣台北市敦化北路201號

201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
12): 3,3'-二甲基聯苯胺 / 3,3'-DIMETHYLBENZIDINE (CAS No.: 000119-93-7)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
13): 3,3'-二甲基-4,4'-二氨基二苯甲烷 / 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000838-88-0)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
14): 2-甲氧基-5-甲基聯苯 / P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 000120-71-8)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
15): 4,4'-亞甲基雙(氯苯胺) / 4,4'-METHYLENE-BIS-(2-CHLOROANILINE) (CAS No.: 000101-14-4)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
16): 4,4'-氧化雙苯胺 / 4,4'-OXYDIANILINE (CAS No.: 000101-80-4)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
17): 4,4'-硫代雙苯胺 / 4,4'-THIODIANILINE (CAS No.: 000139-65-1)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
18): 鄰甲苯胺 / O-TOLUIDINE (CAS No.: 000095-53-4)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
19): 2,4-二氨基甲苯 / 2,4-TOLUYLENEDIAMINE (CAS No.: 000095-80-7)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	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, 不可部份複製。

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](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.



# 測試報告

## Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 9 of 23

南亞塑膠工業股份有限公司  
 NAN YA PLASTICS CORPORATION  
 台灣台北市敦化北路201號  
 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
20): 2,4,5-三甲基苯胺 / 2,4,5-TRIMETHYLANILINE (CAS No.: 000137-17-7)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
21): 鄰位甲氧基苯胺 / O-ANISIDINE (CAS No.: 000090-04-0)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
22): 對氨基偶氮苯 / P-AMINOAZOBENZENE (CAS No.: 000060-09-3)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
23): 2,4-二甲基苯胺 / 2,4-XYLIDINE (CAS No.: 000095-68-1)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
24): 2,6-二甲基苯胺 / 2,6-XYLIDINE (CAS No.: 000087-62-7)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
<b>可塑劑定量分析 / Phthalates</b>	---	---	---	---
鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 000084-75-3)	%	本測試參考EN 14372 : 2004, 以氣相層析儀/質譜儀檢測之. / With reference to EN 14372 : 2004. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	本測試參考EN 14372 : 2004, 以氣相層析儀/質譜儀檢測之. / With reference to EN 14372 : 2004. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 028553-12-0)	%	本測試參考EN 14372 : 2004, 以氣相層析儀/質譜儀檢測之. / With reference to EN 14372 : 2004. Analysis was performed by GC/MS.	0.01	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, 不可部份複製。

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](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.

# 測試報告

## Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 10 of 23

南亞塑膠工業股份有限公司

NAN YA PLASTICS CORPORATION

台灣台北市敦化北路201號

201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	本測試參考EN 14372 : 2004, 以氣相 層析儀/質譜儀檢測之。 / With reference to EN 14372 : 2004. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 026761- 40-0)	%	本測試參考EN 14372 : 2004, 以氣相 層析儀/質譜儀檢測之。 / With reference to EN 14372 : 2004. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)	%	本測試參考EN 14372 : 2004, 以氣相 層析儀/質譜儀檢測之。 / With reference to EN 14372 : 2004. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸丁酯苯甲酯 / BBP (Benzyl butyl phthalate) (CAS No.: 000085-68- 7)	%	本測試參考EN 14372 : 2004, 以氣相 層析儀/質譜儀檢測之。 / With reference to EN 14372 : 2004. Analysis was performed by GC/MS.	0.003	n.d.
不完全鹵化氯烷碳化物 / HFC	---	---	---	---
HFC-23 (CHF3)	mg/kg	參考US EPA 5021方法, 以氣相層析質 譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-32 (CHF3)	mg/kg	參考US EPA 5021方法, 以氣相層析質 譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-41 (CH3F)	mg/kg	參考US EPA 5021方法, 以氣相層析質 譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-43-10mee (C5H2F10)	mg/kg	參考US EPA 5021方法, 以氣相層析質 譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	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, 不可部份複製。

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](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.

# 測試報告

## Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 11 of 23

南亞塑膠工業股份有限公司  
 NAN YA PLASTICS CORPORATION  
 台灣台北市敦化北路201號  
 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
HFC-125 (C2HF5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-134 (C2H2F4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-134a (CH2FCF3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-143 (CH3F3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-143a (CH3F3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-152a (C2H4F2)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-227ea (C3HF7)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-236fa (C3H2F6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	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, 不可部份複製。

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](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.

# 測試報告

## Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 12 of 23

南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION

台灣台北市敦化北路201號

201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
HFC-236ea (C3H2F6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-245ca (C3H3F5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-245fa (C3H3F5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-365mfc (C4H5F5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
<b>全氟化碳 / Perfluorocarbon (PFC)</b>	---	---	---	---
F14 (CAS No.: 000075-73-0)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Fluorocarbon 116 (CAS No.: 000076-16-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Freon 218 (CAS No.: 000076-19-7)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Decafluorobutane (CAS No.: 000355-25-9)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	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, 不可部份複製。

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](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.

# 測試報告

## Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 13 of 23

南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION

台灣台北市敦化北路201號  
201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
Freon C318 (CAS No.: 000115-25-3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Perfluor-1-butane (CAS No.: 000357-26-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
perfluorisobutane (CAS No.: 000382-21-8)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,4-dihydroctrafluorobutane (CAS No.: 000377-36-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
nonafluor-2- (trifluorpmethyl)butane (CAS No.: 000594-91-2)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
perfluoro-n-pentane (CAS No.: 000678-26-2)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
2-perfluoromethylpentane (CAS No.: 000355-04-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
perfluorohexane (CAS No.: 000355-42-0)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	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, 不可部份複製。

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](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.

## 測試報告 Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 14 of 23

南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION

台灣台北市敦化北路201號

201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



### 備註(Note) :

1. mg/kg = ppm
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. "---" = Not Conducted (未測項目)
6. \*\* = Qualitative analysis (No Unit) 定性分析(無單位)
7. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
8. Negative = 陰性 (< 1.0 %), Positive = 陽性 (> 1.0 %)
9. 若為氯化石蠟中單一化合物, 則偵測極限為5ppm (The MDL is 5ppm for the single compound of CP)

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, 不可部份複製。

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](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.

## 測試報告 Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 15 of 23

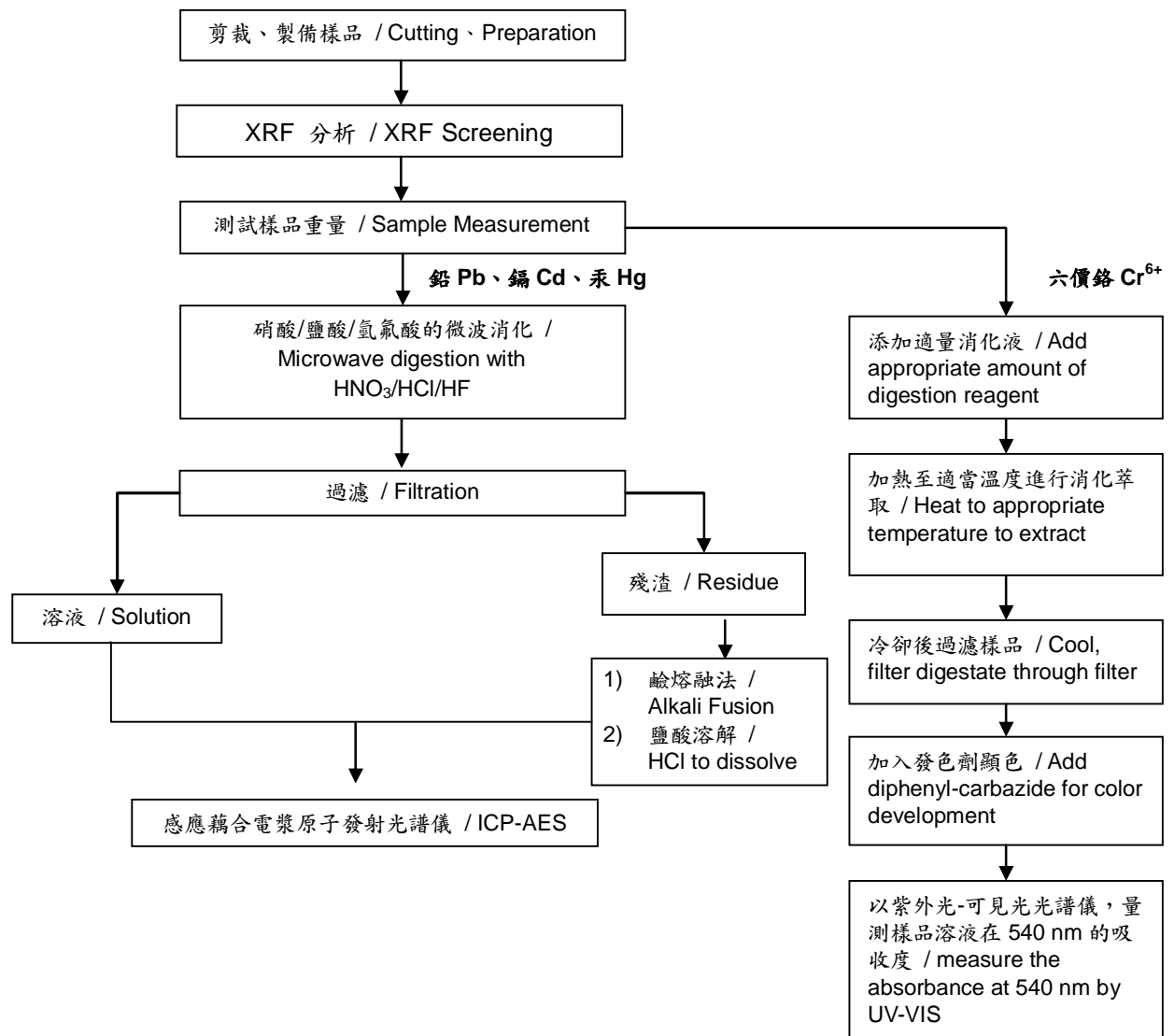
南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION

台灣台北市敦化北路201號

201 TUNG HWA NORTH ROAD, TAIPEI, 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，不可部份複製。

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](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.

## 測試報告 Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 16 of 23

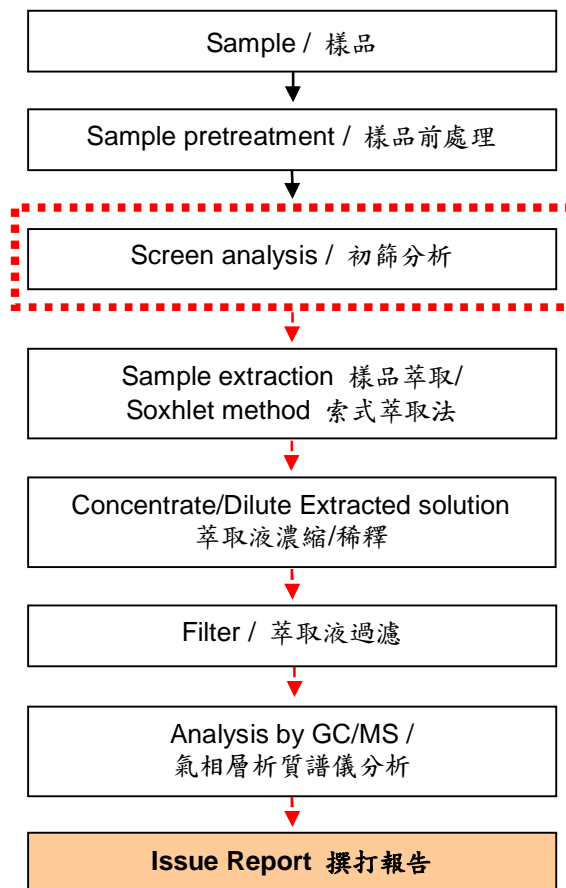
南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION  
台灣台北市敦化北路201號  
201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



### 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，不可部份複製。

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](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.



## 測試報告 Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 17 of 23

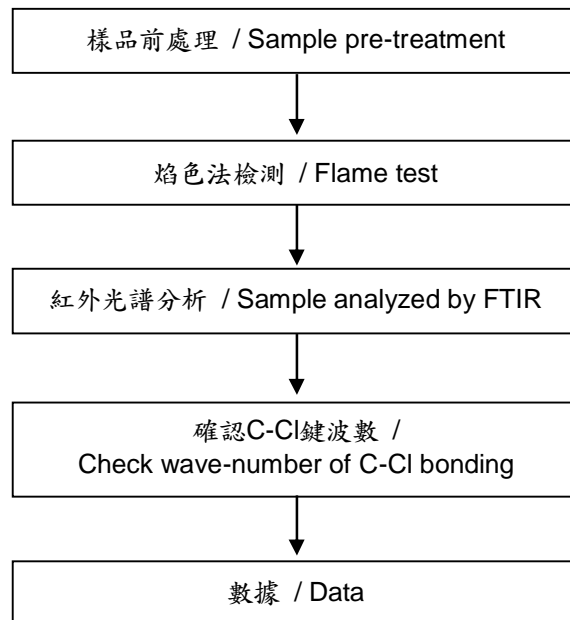
南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION  
台灣台北市敦化北路201號  
201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



### 聚氯乙稀物質判定分析流程圖 /

### Analysis flow chart for determination of PVC in material

- 1) 測試人員：趙婉愉 / Name of the person who made measurement: Eva Chao
- 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，不可部份複製。

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](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.

## 測試報告 Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 18 of 23

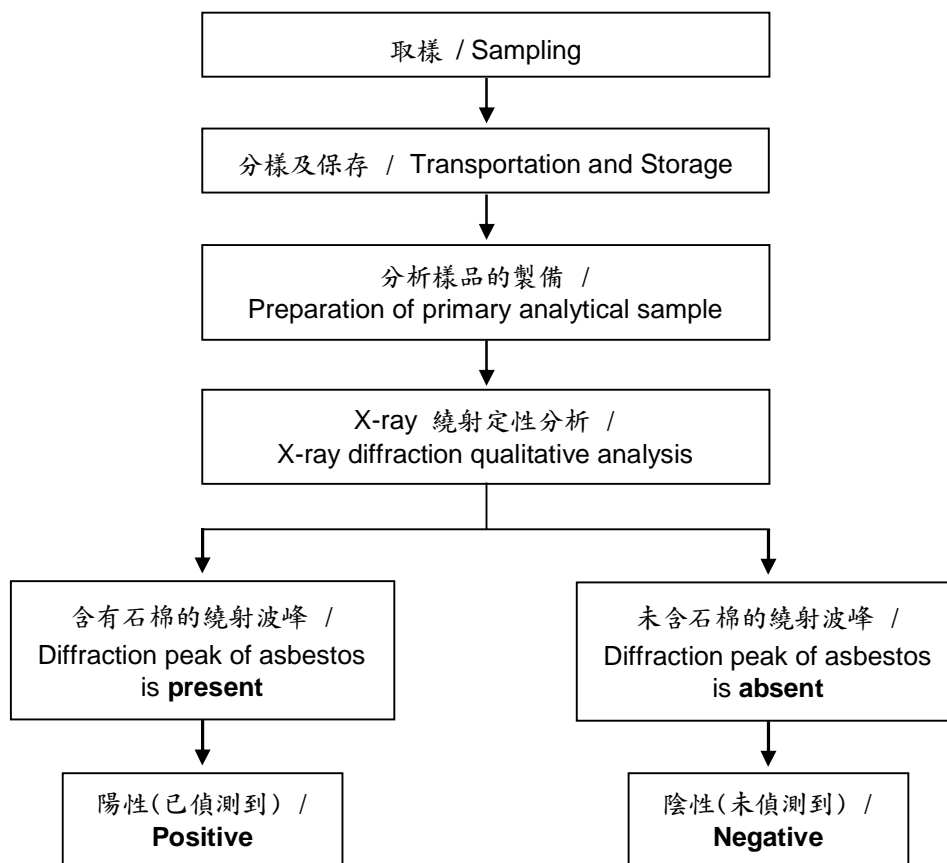
南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION  
台灣台北市敦化北路201號  
201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



### 石棉物質判定分析流程圖 /

### Analysis flow chart for determination of Asbestos

- 1) 測試人員：高鍵忠 / Name of the person who made measurement: Victor Kao
- 2) 測試負責人：盧義龍 / Name of the person in charge of measurement: James Lu



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，不可部份複製。

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](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.

## 測試報告 Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 19 of 23

南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION

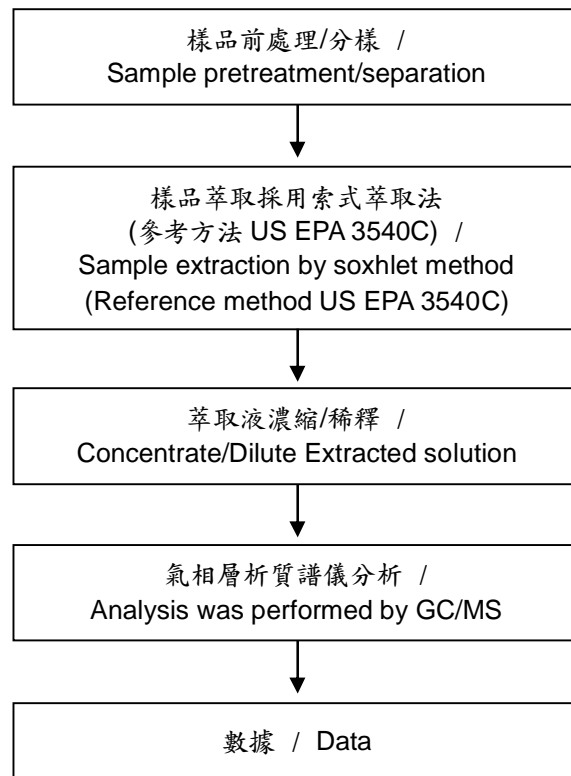
台灣台北市敦化北路201號

201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



### 可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 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，不可部份複製。

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](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.

## 測試報告 Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 20 of 23

南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION

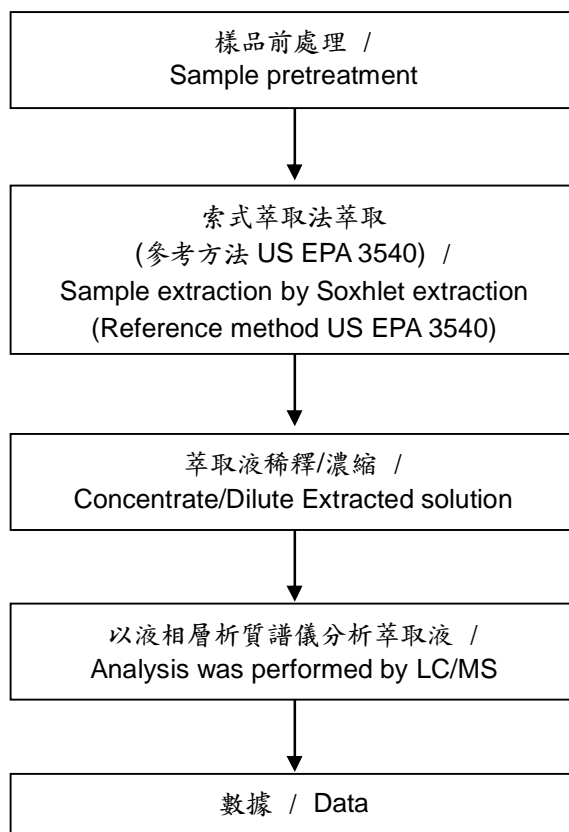
台灣台北市敦化北路201號

201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



### 全氟辛酸(銨)/全氟辛磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

- 1) 測試人員：劉家瑗 / Name of the person who made measurement: Carrie Liu
- 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，不可部份複製。

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](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.

## 測試報告 Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 21 of 23

南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION

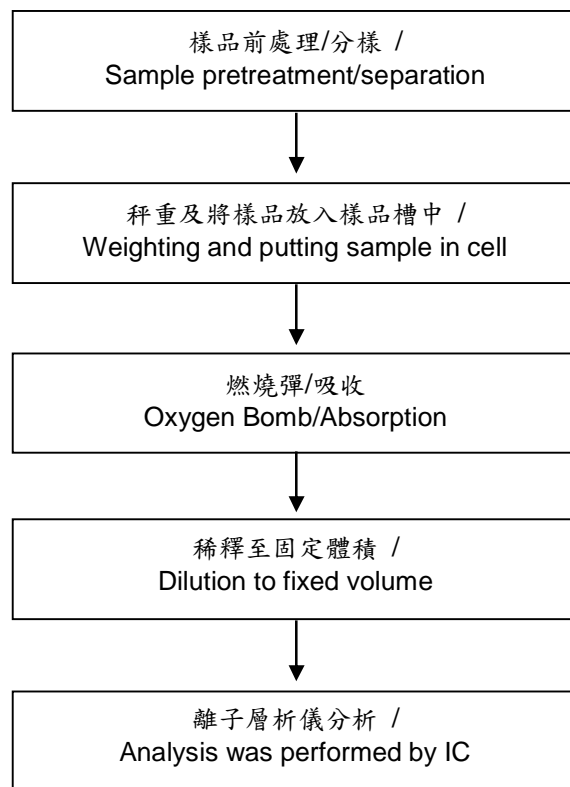
台灣台北市敦化北路201號

201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



### 鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員：藍雅婷 / Name of the person who made measurement: Tin Lan
- 2) 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，不可部份複製。

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](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.

## 測試報告 Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 22 of 23

南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION

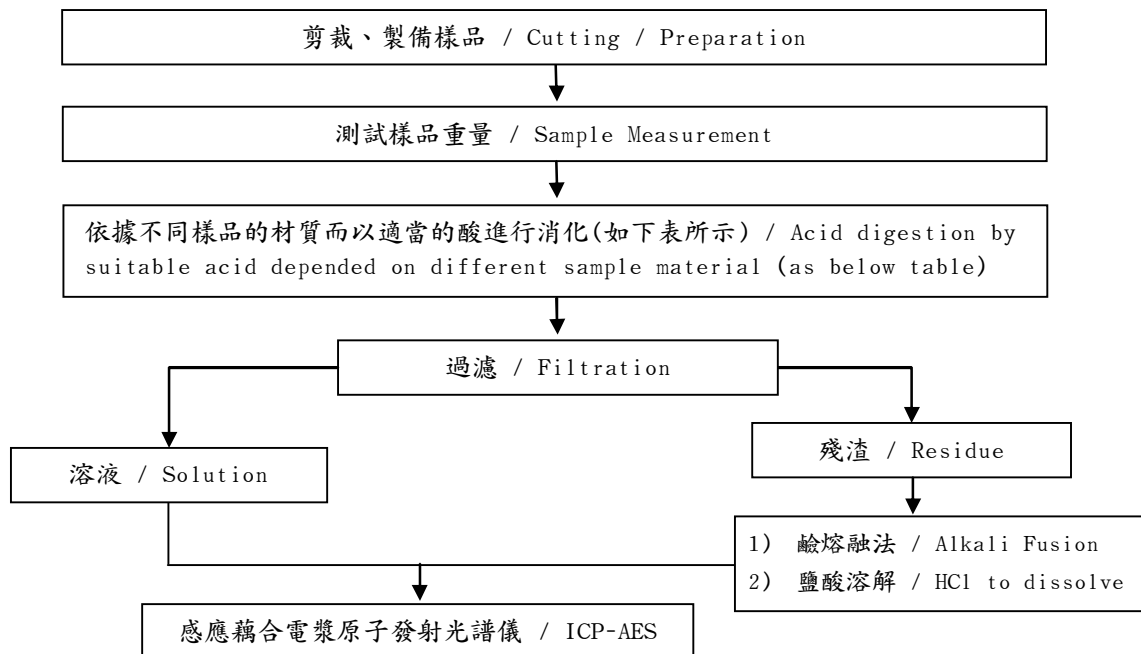
台灣台北市敦化北路201號

201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



- 1) 根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 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

### 元素的消化流程圖 (Flow Chart of Digestion for elements analysis)



鋼, 銅, 鋁, 焊錫 / Steel, copper, aluminum, solder	王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
玻璃 / Glass	硝酸, 氫氟酸 / HNO <sub>3</sub> /HF
金, 鉑, 鈀, 陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO <sub>3</sub>
塑膠 / Plastic	硫酸, 雙氧水, 硝酸, 鹽酸 / H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
其他 / Others	加入任何酸至完全溶解 / Any acid to total digestion

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，不可部份複製。

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](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.

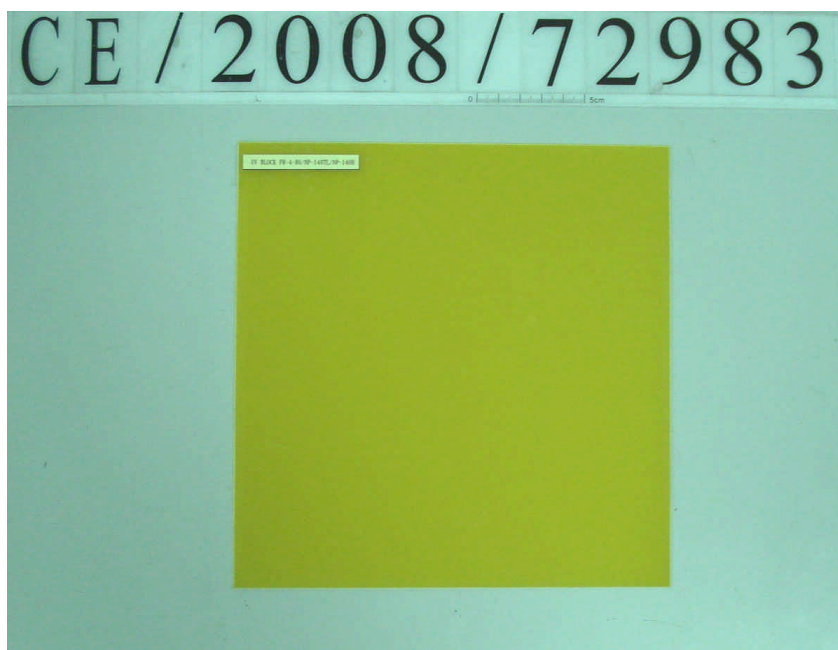
## 測試報告 Test Report

號碼(No.) : CE/2008/72983B 日期(Date) : 2008/07/21 頁數(Page) : 23 of 23

南亞塑膠工業股份有限公司  
NAN YA PLASTICS CORPORATION

台灣台北市敦化北路201號

201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



\*\* 報告結尾 \*\*

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，不可部份複製。

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](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.