

## 測試報告

台灣塑膠工業股份有限公司  
高雄縣仁武鄉水管路100號

報告號碼：KA/2009/31241A-01

日期：2009/03/23

頁數：1 of 26



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：

樣品名稱：白色聚氯乙烯樹脂  
樣品型號：JW B57  
收件日期：2009/03/16  
測試期間：2009/03/16 TO 2009/3/23

=====  
測試結果： - 請見下一頁 -

報告簽署人 / 張伯睿副理

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## 測試結果

測試部位 NO.1

：白色聚氣乙烯樹脂

測試項目	單位	測試方法	方法偵測	結果
			極限值	No. 1
鎘	mg/kg	參考 IEC 62321:2008 方法，用感應藕合電漿原子發射光譜儀 (ICP-AES) 檢測鎘含量。	2	n.d.
汞	mg/kg	參考 IEC 62321:2008 方法，用感應藕合電漿原子發射光譜儀 (ICP-AES) 檢測汞含量。	2	n.d.
鉛	mg/kg	參考 IEC 62321:2008 方法，用感應藕合電漿原子發射光譜儀 (ICP-AES) 檢測鉛含量。	2	n.d.
六價鉻 (Alkaline extraction)	mg/kg	針對非金屬材質之樣品，參考 IEC 62321:2008 方法檢測，用 UV-VIS 檢測六價鉻含量。	2	n.d.
<b>多溴聯苯總和 (PBBs)</b>	mg/kg	參考 IEC 62321:2008 方法，以氣相層析/質譜儀 (GC/MS) 檢測多溴聯苯和多溴聯苯醚含量。	-	n.d.
一溴聯苯			5	n.d.
二溴聯苯			5	n.d.
三溴聯苯			5	n.d.
四溴聯苯			5	n.d.
五溴聯苯			5	n.d.
六溴聯苯			5	n.d.
七溴聯苯			5	n.d.
八溴聯苯			5	n.d.
九溴聯苯			5	n.d.
十溴聯苯			5	n.d.
<b>多溴聯苯醚總和 (PBDEs)</b>	mg/kg	參考 IEC 62321:2008 方法，以氣相層析/質譜儀 (GC/MS) 檢測多溴聯苯和多溴聯苯醚含量。	-	n.d.
一溴聯苯醚			5	n.d.
二溴聯苯醚			5	n.d.
三溴聯苯醚			5	n.d.
四溴聯苯醚			5	n.d.
五溴聯苯醚			5	n.d.
六溴聯苯醚			5	n.d.
七溴聯苯醚			5	n.d.
八溴聯苯醚			5	n.d.
九溴聯苯醚			5	n.d.
十溴聯苯醚			5	n.d.

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測試項目	單位	測試方法	方法偵測 極限值	結果
				No. 1
鉍	mg/kg	依照 US EPA 3052 方法，用感應耦合電漿原子發射光譜儀(ICP-AES)分析。	2	n.d.
二氯化鈷***	mg/kg	依照 US EPA 3052 方法，用感應耦合電漿原子發射光譜儀(ICP-AES)分析。	2	n.d.
氯化石蠟(C10-C13) (CAS NO.: 010871-26-2)	%	參考US EPA 3540C方法，以氣相層析質譜儀/電子捕捉偵測器(GC/ECD)檢測。	0.01	n.d.
多氯聯苯(PCBs)	mg/kg	參考US EPA 3540C方法，以氣相層析質譜儀/電子捕捉偵測器(GC/ECD)檢測。	0.5	n.d.
多氯奈(PCNs)	mg/kg	參考US EPA 3540C方法，以氣相層析質譜儀(GC/MS)檢測。	5	n.d.
多氯三聯苯(PCTs)	mg/kg	參考US EPA 3540C方法，以氣相層析質譜儀(GC/MS)檢測。	0.5	n.d.
全氟辛烷磺酸(PFOS) PFOS — Acid PFOS — Metal Salt PFOS — Amide	mg/kg	參考US EPA 3540C：1996方法，以液相層析質譜儀檢測全氟辛烷磺酸含量。	10	n.d.
2-(2-羥基-3',5'-二-叔-丁基苯基)苯並三唑 (CAS NO.: 3846-71-7)	mg/kg	參考US EPA 3540C方法，以氣相層析/質譜儀(GC/MS)檢測。	10	n.d.
福馬林(甲醛) (CAS NO.: 000050-00-0)	mg/kg	甲醛定量分析,參考DIN 53315方法，以高效液相層析儀/二極體陣列偵測器(HPLC/DAD)檢測。	3	n.d.
聚氣乙烯(PVC)	**	以紅外光譜分析及焰色法檢測。	-	Positive
<b>石棉</b>				
斜方角閃石 (CAS NO.: 017068-78-9)	%	參考 NIOSH 9000 / X光繞射定性分析法(XRD)。	1	Negative
青石棉 (CAS NO.: 012001-28-4)	%	參考 NIOSH 9000 / X光繞射定性分析法(XRD)。	1	Negative

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測試項目	單位	測試方法	方法偵測 極限值	結果
				No. 1
棕石棉 (CAS NO.: 012172-73-5)	%	參考 NIOSH 9000 / X光繞射定性分析法(XRD)。	1	Negative
透閃石 (CAS NO.: 014567-73-8)	%	參考 NIOSH 9000 / X光繞射定性分析法(XRD)。	1	Negative
白石棉 (CAS NO.: 012001-29-5)	%	參考 NIOSH 9000 / X光繞射定性分析法(XRD)。	1	Negative
陽起石 (CAS NO.: 013768-00-8)	%	參考 NIOSH 9000 / X光繞射定性分析法(XRD)。	1	Negative
<b>可塑劑定量分析</b>				
鄰苯二甲酸二(2-乙基己基)酯(DEHP) (CAS NO.: 000117-81-7)	%	參考EN 14372 : 2004方法, 以氣相層析質譜儀檢測。	0.003	n.d.
鄰苯二甲酸二異癸酯(DIDP) (CAS NO.: 026761-40-0)	%	參考EN 14372 : 2004方法, 以氣相層析質譜儀檢測。	0.01	n.d.
鄰苯二甲酸二正辛酯(DNOP) (CAS NO.: 000117-84-0)	%	參考EN 14372 : 2004方法, 以氣相層析質譜儀檢測。	0.003	n.d.
鄰苯二甲酸二丁酯(DBP) (CAS NO.: 000084-74-2)	%	參考EN 14372 : 2004方法, 以氣相層析質譜儀檢測。	0.003	n.d.
鄰苯二甲酸丁酯苯甲酯(BBP) (CAS NO.: 000085-68-7)	%	參考EN 14372 : 2004方法, 以氣相層析質譜儀檢測。	0.003	n.d.
鄰苯二甲酸二異壬酯(DINP) (CAS NO.: 028553-12-0)	%	參考EN 14372 : 2004方法, 以氣相層析質譜儀檢測。	0.01	n.d.
鄰苯二甲酸二己酯(DHP) (CAS NO.: 000084-75-3)	%	參考EN 14372 : 2004方法, 以氣相層析質譜儀檢測。	0.003	n.d.
<b>有機錫</b>				
三丁基錫 (TBT) (CAS NO:000688-73-3)	mg/kg	參考DIN38407-13方法, 以氣相層析儀/火焰光度偵器(GC/FPD)檢測有機錫定量分析。	0.03	n.d.
三苯基錫 (TphT) (CAS NO:000688-34-8)	mg/kg	參考DIN38407-13方法, 以氣相層析儀/火焰光度偵器(GC/FPD)檢測有機錫定量分析。	0.03	n.d.

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測試項目	單位	測試方法	方法偵測	結果
			極限值	No. 1
<b>含氯碳氫化合物(CHCs)定量分析</b>				
1,1,1,2-Tetrachloroethane (CAS NO.: 000630-20-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
1,1,1-Trichloroethane (CAS NO.: 000071-55-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
1,1,2,2-Tetrachloroethane (CAS NO.: 000079-34-5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
1,1,2-Trichloroethane (CAS NO.: 000079-00-5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
1,1-Dichloroethene (CAS NO.: 000075-35-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
1,1-Dichloroethane (CAS NO.: 000075-35-3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
1,1-Dichloropropene (CAS NO.: 000563-58-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
1,2,3-Trichloropropane (CAS NO.: 000096-19-5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
1,2-Dichloroethane (CAS NO.: 000107-06-2)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
1,2-Dichloropropane (CAS NO.: 000078-87-5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
1,3-Dichloropropane (CAS NO.: 000142-28-9)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
2,2-Dichloropropane (CAS NO.: 000594-20-7)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chloroethane (CAS NO.: 000075-00-3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chloroform (CAS NO.: 000067-66-3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chloromethane (CAS NO.: 000074-87-3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
cis-1,2-Dichloroethene (CAS NO.: 000156-59-2)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.

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測試項目	單位	測試方法	方法偵測 極限值	結果
				No. 1
cis-1,3-Dichloropropene (CAS NO.: 010061-01-5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hexachlorobutadiene (CAS NO.: 000087-68-3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Methylene Chloride (CAS NO.: 000075-09-2)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
trans-1,2-Dichloroethene (CAS NO.: 000156-60-5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
trans-1,3-Dichloropropene (CAS NO.: 010061-02-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Trichloroethylene (CAS NO.: 000079-01-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Carbon Tetrachloride (CAS NO.: 000056-23-5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
1,1,1-三氯乙烷	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
<b>Hydrofluorcarbon, fluorinated hydrocarbon, fluorohydrocarbon (HFC)</b>				
HFC-23 (CHF3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HFC-32 (CH2F2)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	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	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	1	n.d.
HFC-125 (C2HF5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	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	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	1	n.d.
HFC-143 (C2H3F3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HFC-143a (C2H3F3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.

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				No. 1
HFC-152a (C2H4F2)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	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	1	n.d.
HFC-236cb (CH2FCF2CF3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	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	1	n.d.
HFC-236ea (CHF2CHFCF3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	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	1	n.d.
HFC-245fa (CHF2CH2CF3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HFC-365mfc (CF3CH2CF2CH3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
<b>全氟化碳(PFC)</b>				
F14	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Fluorocarbon 116	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Freon 218	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Decafluorobutane	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Freon C 318	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Perfluoro-1-butene	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Perfluoroisobutene	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
1,4-Dihydrooctafluorobutane	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Nonafluoro-2-(trifluoromethyl)butane	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.

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# 測試報告

台灣塑膠工業股份有限公司  
高雄縣仁武鄉水管路100號

報告號碼：KA/2009/31241A-01

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測試項目	單位	測試方法	方法偵測 極限值	結果
				No. 1
Perfluoro-n-pentane	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
2-Perfluoromethylpentane	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Perfluorohexane	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
<b>臭氣危害物質ODCs(CFCs)， 海龍(HALON)定量分析</b>				
Chlorofluorocarbon-11 (CAS NO.: 000075-69-4)	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chlorofluorocarbon-12 (CAS NO.: 000075-71-8)	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chlorofluorocarbon-113 (CAS NO.: 000076-13-1)	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chlorofluorocarbon-114 (CAS NO.: 000076-14-2)	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chlorofluorocarbon-115 (CAS NO.: 000076-15-3)	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chlorofluorocarbon-13 (CAS NO.: 000075-72-9)	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chlorofluorocarbon-111 (CAS NO.: 000354-56-3)	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chlorofluorocarbon-112 (CAS NO.: 000076-12-0)	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chlorofluorocarbon-211 (CAS NO.: 135401-87-5)	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chlorofluorocarbon-212 (CAS NO.: 076564-99-3)	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chlorofluorocarbon-213 (CAS NO.: 060285-54-3)	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chlorofluorocarbon-214 (CAS NO.: 002268-46-4)	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chlorofluorocarbon-215 (CAS NO.: 000076-17-5)	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.

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# 測試報告

台灣塑膠工業股份有限公司  
高雄縣仁武鄉水管路100號

報告號碼：KA/2009/31241A-01

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測試項目	單位	測試方法	方法偵測 極限值	結果
				No. 1
Chlorofluorocarbon-216 (CAS NO.: 001652-80-8)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Chlorofluorocarbon-217 (CAS NO.: 000422-86-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Halon-1211 (CAS NO.: 000353-59-3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Halon-1301 (CAS NO.: 000075-63-8)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Halon-2402 (CAS NO.: 000124-73-1)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
<b>臭氣危害物質ODCs (HCFCs)定量分析</b>				
Hydrochlorofluorocarbon-21 (CAS NO.: 000075-43-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-22 (CAS NO.: 000075-45-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-31 (CAS NO.: 000593-70-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-121 (CAS NO.: 130879-71-9)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-122 (CAS NO.: 041834-16-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-123 (CAS NO.: 034077-87-7)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-124 (CAS NO.: 063938-10-3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-131 (CAS NO.: 134237-34-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-132 (CAS NO.: 025915-78-0)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-133 (CAS NO.: 001330-45-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-141 (CAS NO.: 025167-88-8)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-141b (CAS NO.: 001717-00-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.

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# 測試報告

台灣塑膠工業股份有限公司  
高雄縣仁武鄉水管路100號

報告號碼：KA/2009/31241A-01

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測試項目	單位	測試方法	方法偵測 極限值	結果
				No. 1
Hydrochlorofluorocarbon-142 (CAS NO.: 025497-29-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-142b (CAS NO.: 000075-68-3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-151 (CAS NO.: 001615-75-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-221 (CAS NO.: 134237-35-7)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-222 (CAS NO.: 134237-36-8)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-223 (CAS NO.: 134237-37-9)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-224 (CAS NO.: 134237-38-0)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-225 (CAS NO.: 127564-92-5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-225ca (CAS NO.: 000422-56-0)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-225cb (CAS NO.: 000507-55-1)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-226 (CAS NO.: 134308-72-8)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-231 (CAS NO.: 134190-48-0)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-232 (CAS NO.: 134237-39-1)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-233 (CAS NO.: 134237-40-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-234 (CAS NO.: 127564-83-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-235 (CAS NO.: 134237-83-5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-241 (CAS NO.: 134190-49-1)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-242 (CAS NO.: 134237-42-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.

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高雄縣仁武鄉水管路100號

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測試項目	單位	測試方法	方法偵測 極限值	結果
				No. 1
Hydrochlorofluorocarbon-243 (CAS NO.: 134237-43-7)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-244 (CAS NO.: 134190-50-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-251 (CAS NO.: 134190-51-5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-252 (CAS NO.: 134190-52-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-253 (CAS NO.: 134237-44-8)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-261 (CAS NO.: 134237-45-9)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-262 (CAS NO.: 134190-53-7)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
Hydrochlorofluorocarbon-271 (CAS NO.: 134190-54-8)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
<b>臭氧危害物質ODCs (HBFCs)定量分析</b>				
HBFC-21B2	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-22B1	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-31B1	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-121B4	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-122B3	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-123B2	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-124B1	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-131B3	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-132B2	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測	1	n.d.

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台灣塑膠工業股份有限公司  
高雄縣仁武鄉水管路100號

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測試項目	單位	測試方法	方法偵測 極限值	結果
				No. 1
HBFC-133B1	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-141B2	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-142B1	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-151B1	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-221B6	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-222B5	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-223B4	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-224B3	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-225B2	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-226B1	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-231B5	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-232B4	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-233B3	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-234B2	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-235B1	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-241B4	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-242B3	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-243B2	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.

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# 測試報告

台灣塑膠工業股份有限公司  
高雄縣仁武鄉水管路100號

報告號碼：KA/2009/31241A-01

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測試項目	單位	測試方法	方法偵測 極限值	結果
				No. 1
HBFC-244B1	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-251B3	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-252B2	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-253B1	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-261B2	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-262B1	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
HBFC-271B1	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
BROMOMETHANE	mg/kg	參考US EPA 5021方法，以氣相層析質譜儀(GC/MS)檢測	1	n.d.
<b>偶氮測試</b>				
1):4-氨基二苯 (CAS NO.92-67-1)	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。	3	n.d.
2):聯苯胺 (CAS NO.92-87-5)	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。	3	n.d.
3):4-氯-鄰-甲苯胺 (CAS NO.95-69-2)	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。	3	n.d.
4):2-萘胺 (CAS NO.91-59-8)	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。	3	n.d.
5):鄰-氨基偶氮甲苯 (CAS NO.97-56-3)	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。	3	n.d.
6):5-硝基-鄰-甲苯胺 (CAS NO.99-55-8)	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。	3	n.d.
7):4-氯苯胺 (CAS NO.106-47-8)	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。	3	n.d.
8):4-甲氧基-間-苯二胺 (CAS NO.615-05-4)	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。	3	n.d.

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# 測試報告

台灣塑膠工業股份有限公司  
高雄縣仁武鄉水管路100號

報告號碼：KA/2009/31241A-01

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測試項目	單位	測試方法	方法偵測 極限值	結果
				No. 1
9):4,4'-二氨基二苯甲烷 (CAS NO.101-77-9)	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。	3	n.d.
10):3,3'-二氯聯苯胺 (CAS NO.91-94-1)	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。	3	n.d.
11):3,3'二甲氧基聯苯胺 (CAS NO.119-90-4)	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。	3	n.d.
12):3,3'-二甲基聯苯胺 (CAS NO.119-93-7)	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。	3	n.d.
13):3,3'-二甲基-4,4'-二氨基二苯甲烷 (CAS NO.838-88-0)	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。	3	n.d.
14):2-甲氧基-5-甲基苯胺 (CAS NO.120-71-8)	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。	3	n.d.
15):4,4'-亞甲基-雙(2-氯苯胺) (CAS NO.101-14-4)	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。	3	n.d.
16):4,4'-氧化雙苯胺 (CAS NO.101-80-4)	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。	3	n.d.
17):4,4'-硫代雙苯胺 (CAS NO.139-65-1)	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。	3	n.d.
18):鄰-甲苯胺 (CAS NO.95-53-4)	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。	3	n.d.
19):2,4-二氨基甲苯 (CAS NO.95-80-7)	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。	3	n.d.
20):2,4,5-三甲基苯胺 (CAS NO.137-17-7)	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。	3	n.d.
21):鄰位甲氧基苯胺 (CAS NO.90-04-0)	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。	3	n.d.
22):對氨基偶氮苯 (CAS NO.60-09-3)	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。	3	n.d.
23):2,4-二甲基苯胺 (CAS NO.95-68-1)	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。	3	n.d.
24):2,6-二甲基苯胺 (CAS NO.87-62-7)	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。	3	n.d.

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## 測試報告

台灣塑膠工業股份有限公司  
高雄縣仁武鄉水管路100號

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- 備註：
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. 歐洲共同體法院2008年4月1日已經駁回2005/717/EC中針對十溴聯本醚可在塑膠中使用的排外條款,該項隨後將會自2008年7月1日起列於各項溴聯本醚分析數值總括計算中
  6. \*\*定性分析(無單位)
  7. Negative / 陰性(未偵測到), Positive / 陽性(已偵測到)
  8. 依據2005/84/EC所公布76/769/EEC指令之第二次修正會議提及,3種可塑劑DEHP, DBP與BBP之總含量不可大於0.1%,另3種可塑劑DINP, DIDP及DNOP之總含量亦不可大於0.1%.
  9. \*\*\*: 該物質是由鈷之測試結果計算得知。其MDL是針對鈷之評估。
  10. 石棉測試由SGS其他實驗室執行。
  11. PVC測試由SGS其他實驗室執行。

### PFOS參考資訊：指令 2006/122/EC

- (1) 該物質不可置於市場上或使用於特殊物質或配置成分重量濃度等於或大於0.005%.
- (2) 該物質不可置於市場上的半成品或商品或其物件; 假若零件上明顯地具有PFOS並參照結構上及微細構造上計算PFOS重量濃度等於或大於0.1%, 而紡織品或其他覆蓋物質, 如果PFOS在覆蓋物質中含量等於或大於 $1\mu\text{g}/\text{m}^2$ .

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## 測試報告

台灣塑膠工業股份有限公司  
高雄縣仁武鄉水管路100號

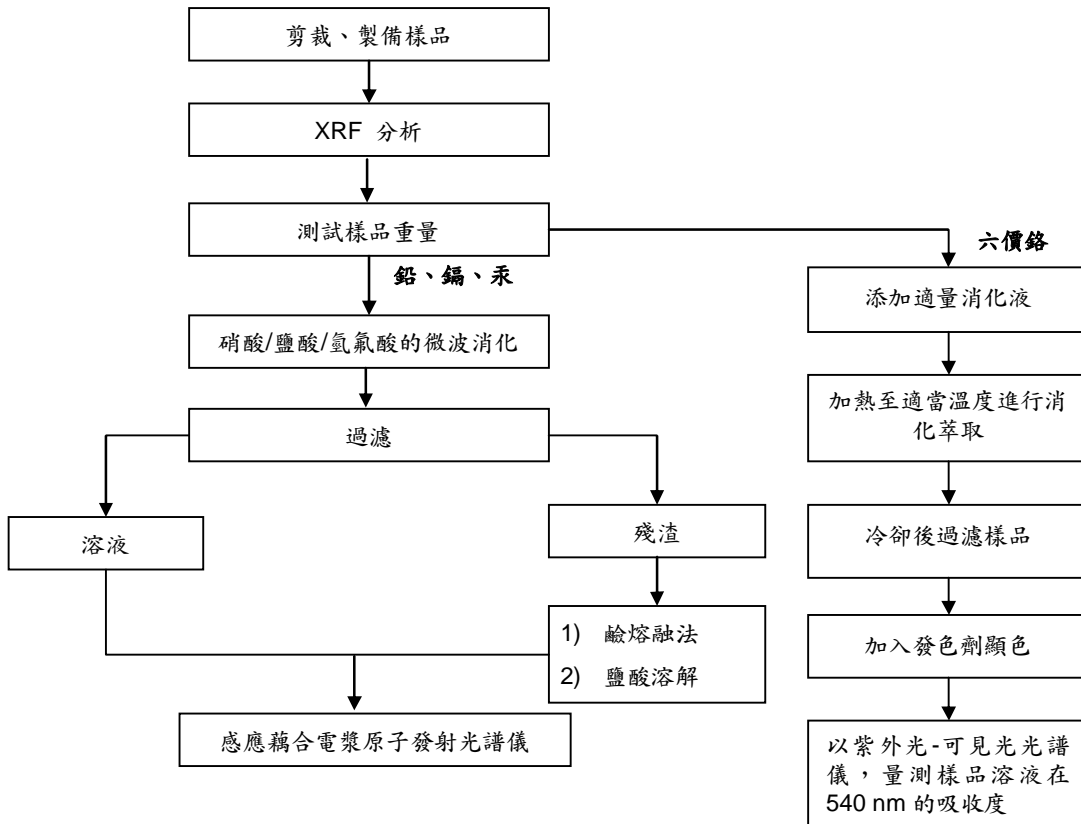
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)
- 2) 測試人員：李宏明
- 3) 測試負責人：張伯睿



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台灣塑膠工業股份有限公司  
高雄縣仁武鄉水管路100號

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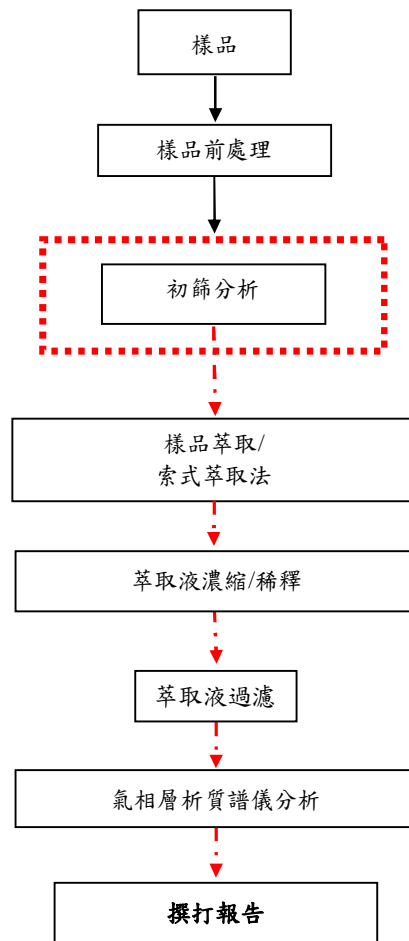
### 多溴聯苯/多溴聯苯醚分析流程圖

- 1) 測試人員：曹嘉琪
- 2) 測試負責人：張伯睿

初次測試程序 →

選擇性篩檢程序 ·····

確認程序 - - - ->



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# 測試報告

台灣塑膠工業股份有限公司  
高雄縣仁武鄉水管路100號

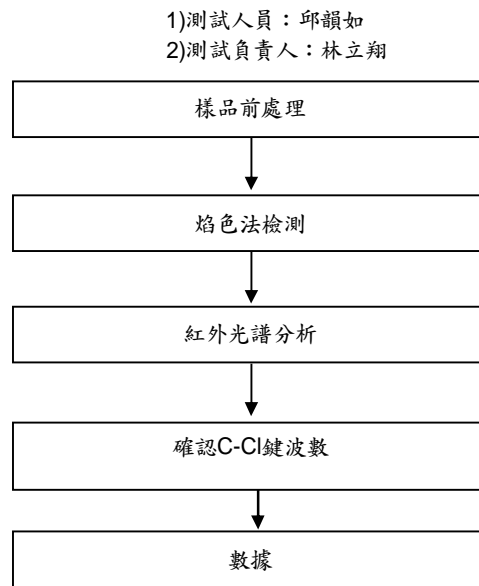
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## 聚氯乙稀物質判定分析流程圖



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## 測試報告

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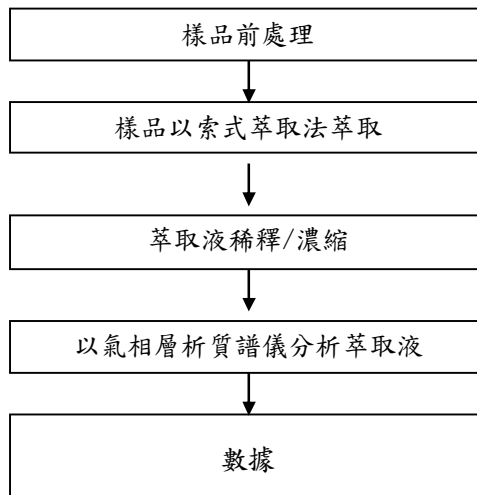
日期：2009/03/23

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### 苯並三唑類化合物分析流程圖

- 1) 測試人員：曹嘉琪
- 2) 測試負責人：張伯睿



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## 測試報告

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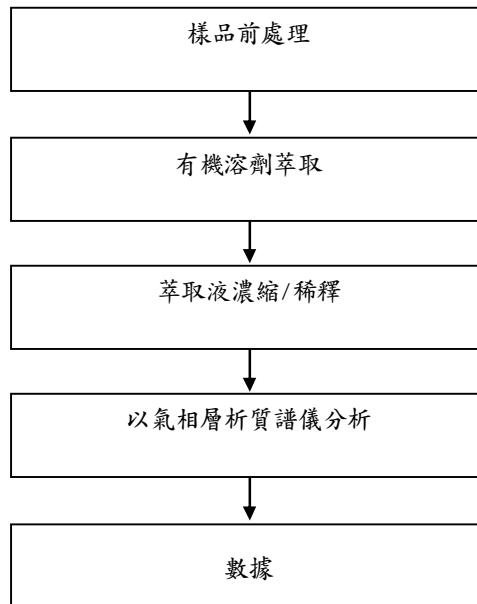
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### 含氯阻燃劑分析流程

- 1) 測試人員：曹嘉琪
- 2) 測試負責人：張伯睿

- 參考方法: US EPA 8270D, US EPA 3540
- 測試項目: 多氯奈, 多氯三聯苯, 滅蟻靈,



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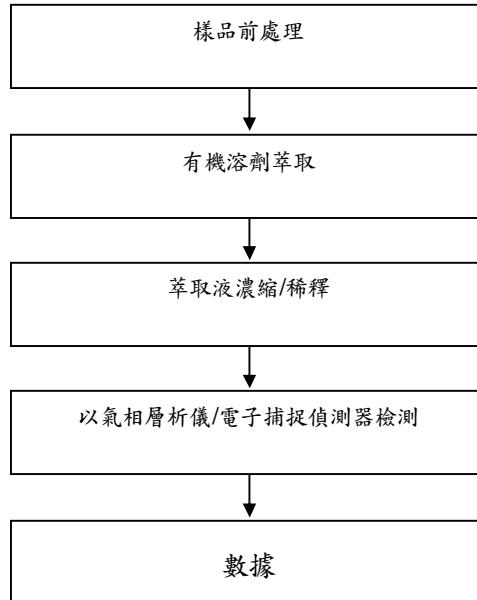
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### 含氯阻燃劑分析流程

- 1) 測試人員：曹嘉琪
- 2) 測試負責人：張伯睿

- 參考方法：USEPA 3540
- 測試項目：多氯聯苯，氯化石蠟，中鏈氯化石蠟



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## 測試報告

台灣塑膠工業股份有限公司  
高雄縣仁武鄉水管路100號

報告號碼：KA/2009/31241A-01

日期：2009/03/23

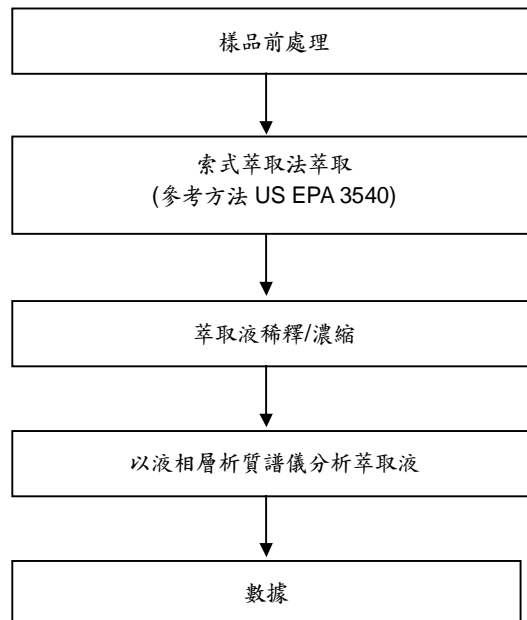
頁數：22 of 26



### 全氟辛烷磺酸分析流程圖

1) 測試人員：曹嘉琪

2) 測試負責人：張伯睿



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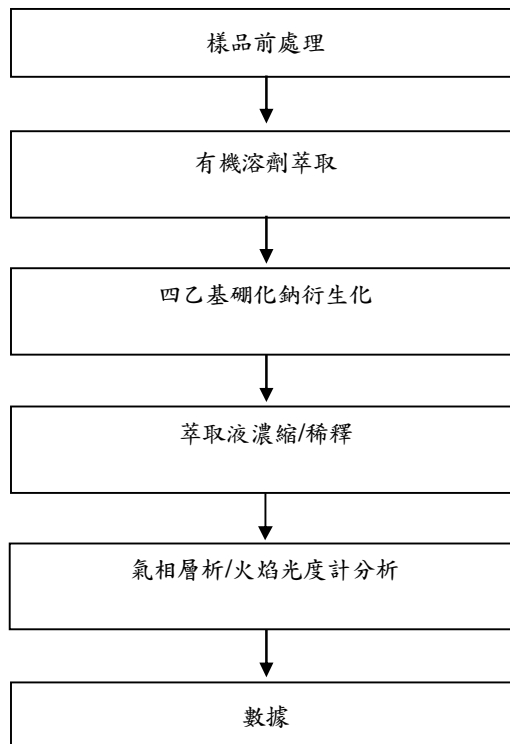
日期：2009/03/23

頁數：23 of 26



### 有機錫分析流程圖

- 1) 測試人員：曹嘉琪
- 2) 測試負責人：張伯睿



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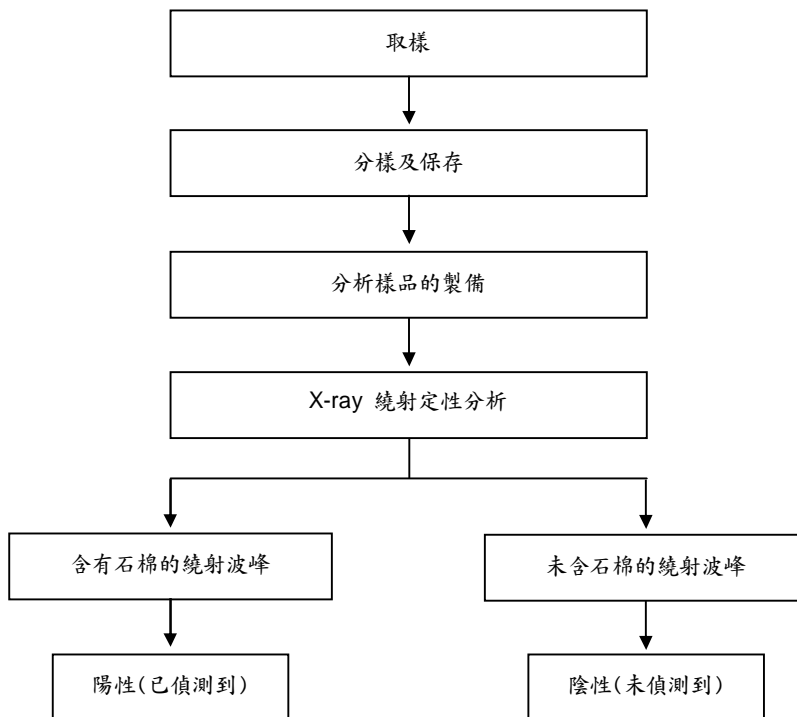
日期：2009/03/23

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### 石棉物質判定分析流程圖

- 1) 測試人員：高鍵忠
- 2) 測試負責人：盧義龍



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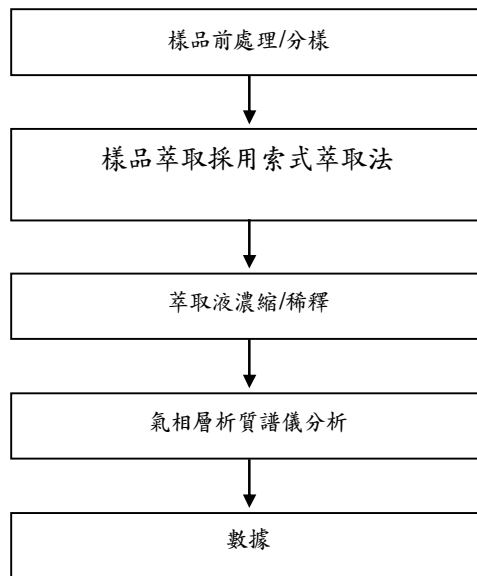
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### 可塑劑分析流程圖

1)測試人員：曹嘉琪

2)測試負責人：張伯睿



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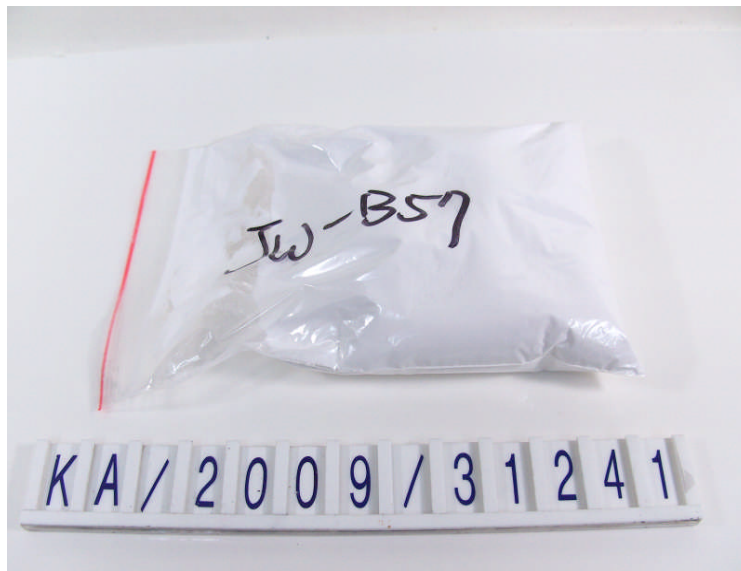
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