

# 測試報告 Test Report

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力鵬企業股份有限公司  
LI PENG ENTERPRISE CO., LTD.  
台北市松江路162號6樓  
6F, NO. 162, SUNG-CHIANG RD., TAIPEI 104, 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) : 力寶龍尼龍粒 (LIBOLON PA 6 CHIP)  
樣品型號(Style/Item No.) : 尼龍粒 (PA 6 CHIP)  
收件日期(Sample Receiving Date) : 2008/02/25  
測試期間(Testing Period) : 2008/02/25 TO 2008/03/04

=====  
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

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### 測試結果(Test Results)

測試部位(PART NAME) NO.1 : 半透明白色塑膠粒 (TRANSLUCENT-WHITE PLASTIC PELLETS)

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)	法規 限值 (Limit)
				NO.1	
鎘 / Cadmium (Cd)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測鎘含量. / With reference to US EPA Method 3052 for Cadmium Content. Analysis was performed by ICP-AES.	2	n.d.	-
鉛 / Lead (Pb)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測鉛含量. / With reference to US EPA Method 3052 for Lead Content. Analysis was performed by ICP-AES.	2	n.d.	-
汞 / Mercury (Hg)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測汞含量. / With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	n.d.	-
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	針對非金屬材質之樣品, 參考US EPA 3060A方法, 用UV-VIS (US EPA 7196A) 檢測六價鉻含量. / With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium for non-metallic samples. Analysis was performed by UV-Vis Spectrometry.	2	n.d.	-

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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)	法規 限值 (Limit)
				NO.1	
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.	-
多氯奈 / 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.	-
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.	-
鎳 / Nickel (Ni)	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鎳含量. / With reference to US EPA Method 3050B for Nickel Content. Analysis was performed by ICP-AES.	2	n.d.	-
四溴雙酚-A-雙 / TBBP-A-bis (CAS No.: 021850-44-2)	mg/kg	參考US EPA 3540C方法, 以高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測. / With reference to US EPA3540C method. Analysis was performed by HPLC/DAD/MS.	5	n.d.	-

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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)	法規 限值 (Limit)
				NO.1	
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.	-
<b>可塑劑定量分析 / Phthalates</b>					
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	本測試參考期刊Chromatographia Vol.47, No.784, 1998., 以氣相層析儀/質譜儀檢測之 (參考歐盟規範 2005/84/EC) / With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC) .	0.003	n.d.	-
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 028553-12-0)	%	本測試參考期刊Chromatographia Vol.47, No.784, 1998., 以氣相層析儀/質譜儀檢測之 (參考歐盟規範 2005/84/EC) / With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC) .	0.003	n.d.	-
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	本測試參考期刊Chromatographia Vol.47, No.784, 1998., 以氣相層析儀/質譜儀檢測之 (參考歐盟規範 2005/84/EC) / With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC) .	0.003	n.d.	-

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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)	法規 限值 (Limit)
				NO.1	
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 026761-40-0)	%	本測試參考期刊Chromatographia Vol.47, No.784, 1998.，以氣相層析儀/質譜儀檢測之 (參考歐盟規範 2005/84/EC) / With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC) .	0.003	n.d.	-
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)	%	本測試參考期刊Chromatographia Vol.47, No.784, 1998.，以氣相層析儀/質譜儀檢測之 (參考歐盟規範 2005/84/EC) / With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC) .	0.003	n.d.	-
鄰苯二甲酸丁酯苯甲酯 / BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	本測試參考期刊Chromatographia Vol.47, No.784, 1998.，以氣相層析儀/質譜儀檢測之 (參考歐盟規範 2005/84/EC) / With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC) .	0.003	n.d.	-
<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.	-

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				NO.1	
三丁基錫氧化物 / Tributyl Tin Oxide (TBTO) (CAS No.: 000056-35-9)	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. (See Note 10)	0.03	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	-
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	-

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				NO.1	
<b>多溴聯苯總和 / Sum of PBBs</b>			-	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 (一至九溴) / Sum of PBDEs (Mono to Nona) (Note 4)</b>	mg/kg	參考US EPA 3540C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 US EPA 3540C for PBB/PBDE Content. Analysis was performed by GC/MS.	-	n.d.	-
一溴聯苯醚 / Monobromobiphenyl ether			5	n.d.	-
二溴聯苯醚 / Dibromobiphenyl ether			5	n.d.	-
三溴聯苯醚 / Tribromobiphenyl ether			5	n.d.	-
四溴聯苯醚 / Tetrabromobiphenyl ether			5	n.d.	-
五溴聯苯醚 / Pentabromobiphenyl ether			5	n.d.	-
六溴聯苯醚 / Hexabromobiphenyl ether			5	n.d.	-
七溴聯苯醚 / Heptabromobiphenyl ether			5	n.d.	-
八溴聯苯醚 / Octabromobiphenyl ether			5	n.d.	-
九溴聯苯醚 / Nonabromobiphenyl ether			5	n.d.	-
十溴聯苯醚 / Decabromobiphenyl ether			5	n.d.	-
<b>多溴聯苯醚總和 (一至十溴) / Sum of PBDEs (Mono to Deca)</b>			-	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.	-

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				NO.1	
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.	-
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.	-



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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)	法規 限值 (Limit)
				NO.1	
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.	-
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.	-

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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)	法規 限值 (Limit)
				NO.1	
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.	-
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.	-

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LI PENG ENTERPRISE CO., LTD.  
台北市松江路162號6樓  
6F, NO. 162, SUNG-CHIANG RD., TAIPEI 104, 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)	法規 限值 (Limit)
				NO.1	
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>多苯環芳香族化合物 / Polycyclic aromatic Hydrocarbons (PAHs)</b>	---	---	---	---	---
Phenanthrene (CAS No.: 000085-01-8)	mg/kg	參考ISO 18287方法, 以氣相層析質譜儀檢測. / With reference to ISO 18287. Analysis was performed by GC/MS.	0.1	n.d.	-
2-Methylnaphthalene			0.1	n.d.	-
1-Methylnaphthalene			0.1	n.d.	-
Pyrene (CAS No.: 000129-00-0)			0.1	n.d.	-
Naphthalene(CAS No.: 000091-20-3)			0.1	n.d.	-
Indeno[1,2,3-c,d] pyrene (CAS No.: 000193-39-5)			0.1	n.d.	-
Fluorene (CAS No.: 000086-73-7)			0.1	n.d.	-
Fluoranthene (CAS No.: 000206-44-0)			0.1	n.d.	-
Dibenzo[a,h]anthracene (CAS No.: 000053-70-3)			0.1	n.d.	-
Chrysene (CAS No.: 000218-01-9)			0.1	n.d.	-
Benzo[k]fluoranthene (CAS No.: 000207-08-9)			0.1	n.d.	-
Benzo[g,h,i]perylene (CAS No.: 000191-24-2)			0.1	n.d.	-
Benzo[b]fluoranthene (CAS No.: 000205-99-2)			0.1	n.d.	-
Benzo[a]pyrene (CAS No.: 000050-32-8)			0.1	n.d.	-
Benzo[a]anthracene (CAS No.: 000056-55-3)			0.1	n.d.	-
Anthracene (CAS No.: 000120-12-7)			0.1	n.d.	-
Acenaphthylene (CAS No.: 000208-96-8)			0.1	n.d.	-
Acenaphthene (CAS No.: 000083-32-9)	0.1	n.d.	-		
Benzo[e]pyrene (CAS No.: 000192-97-2)	0.1	n.d.	-		

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台北市松江路162號6樓  
6F, NO. 162, SUNG-CHIANG RD., TAIPEI 104, TAIWAN



通過(PASS)

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)	法規 限值 (Limit)
				NO.1	
歐洲玩具標準EN 71 PART 3重金屬 / EN 71 PART 3 Heavy metal content	---	依照歐洲玩具標準EN 71 PART 3:1994 / As per EN 71 PART 3 : 1994 (A1 : 2000, AC:2000 and AC:2002) (EN 71 & BS 5665 are identical)	---	---	---
溶出鉛 / Soluble Lead (Pb)	mg/kg	用感應耦合電漿原子發射光譜儀做分析 / ICP-AES	5	< 5.0	90
溶出銻 / Soluble Antimony (Sb)	mg/kg	用感應耦合電漿原子發射光譜儀做分析 / ICP-AES	5	< 5.0	60
溶出砷 / Soluble Arsenic (As)	mg/kg	用感應耦合電漿原子發射光譜儀做分析 / ICP-AES	2.5	< 2.5	25
溶出鋇 / Soluble Barium (Ba)	mg/kg	用感應耦合電漿原子發射光譜儀做分析 / ICP-AES	10	< 10.0	1000
溶出鎘 / Soluble Cadmium (Cd)	mg/kg	用感應耦合電漿原子發射光譜儀做分析 / ICP-AES	5	< 5.0	75
溶出鉻 / Soluble Chromium (Cr)	mg/kg	用感應耦合電漿原子發射光譜儀做分析 / ICP-AES	5	< 5.0	60
溶出汞 / Soluble Mercury (Hg)	mg/kg	用感應耦合電漿原子發射光譜儀做分析 / ICP-AES	5	< 5.0	60
溶出硒 / Soluble Selenium (Se)	mg/kg	用感應耦合電漿原子發射光譜儀做分析 / ICP-AES	5	< 5.0	500

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. 根據2005年10月13日歐盟會議公佈2005/717/EC, 修訂2002/95/EC內容, 通過解除高分子材質中十溴聯苯醚之使用限制. (According to 2005/717/EC DecaBDE is exempt.)
5. "-" = Not Regulated (無規格值)
6. "---" = Not Conducted (未測項目)
7. Negative = 陰性 (< 1.0 %), Positive = 陽性 (> 1.0 %)
8. 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)
9. 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% (Amending for the 22nd Council Directive 76/769/EEC notified under document 2005/84/EC, total concentration of three compounds DEHP, DBP and BBP shall not be greater than 0.1% and total concentration of three compounds DINP, DIDP and DNOP shall not be greater than 0.1%.)
10. 三丁基錫氧化物: 由三丁基錫含量 × 1.0276係數換算得之  
Tributyl tin oxide [(C<sub>4</sub>H<sub>9</sub>)<sub>3</sub>Sn]<sub>2</sub>O: Calculate from Tributyltin content multiply 1.0276 factor.

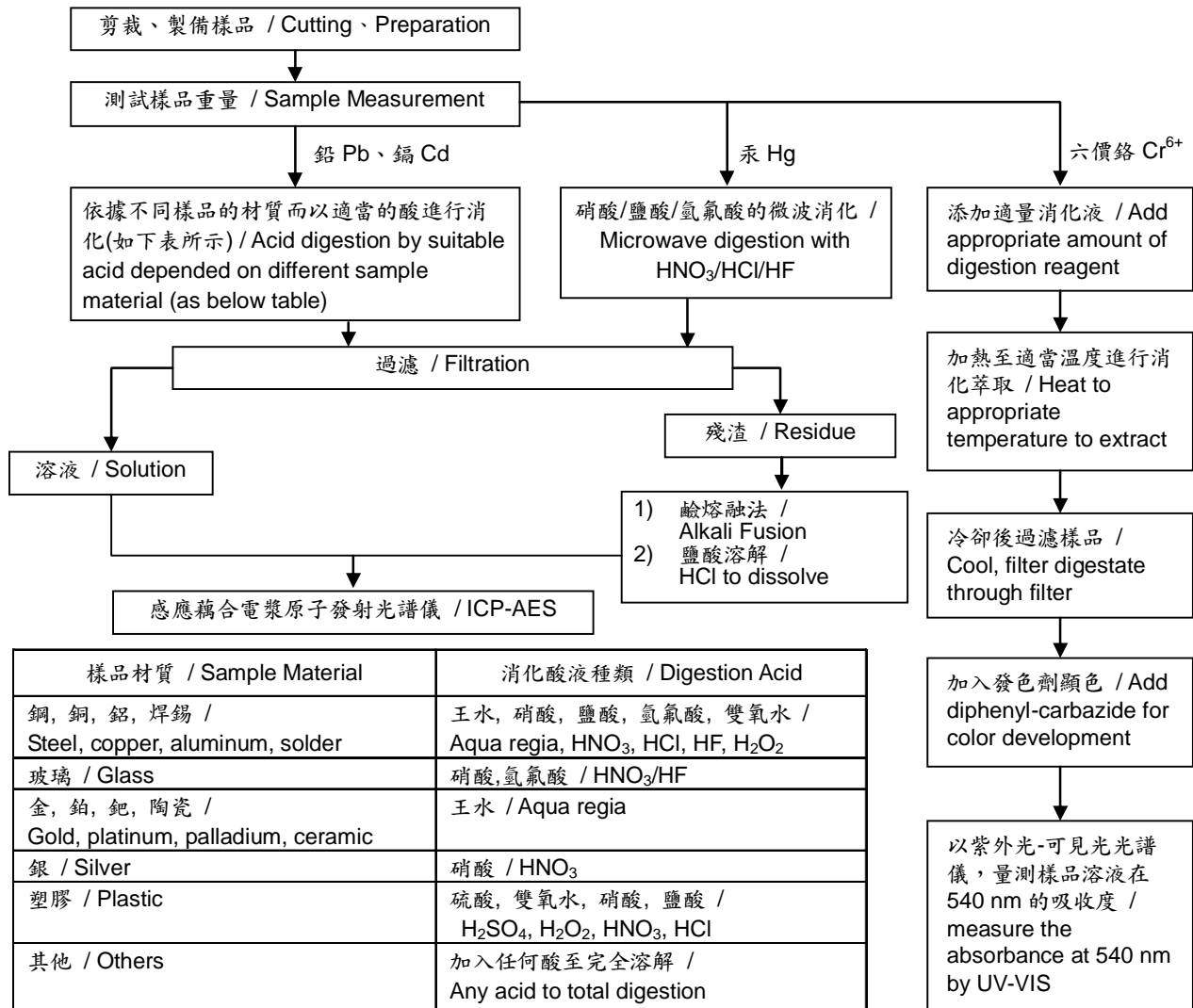
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)
- 2) 測試人員：張啓興 / Name of the person who made measurement: Troy Chang
- 3) 測試負責人：龔振裕 / Name of the person in charge of measurement: Chenyu Kung



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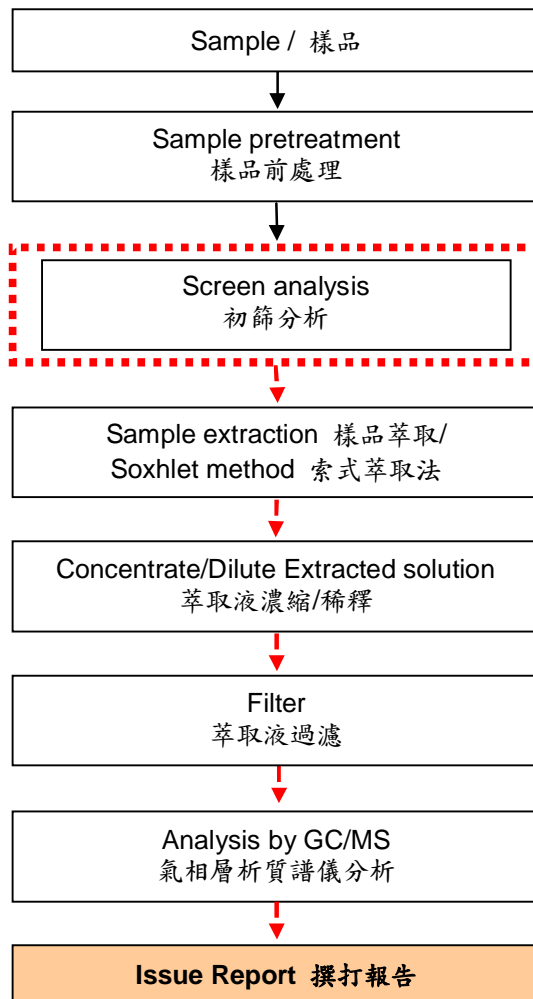


## 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

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 - - - ▶



# 測試報告 Test Report

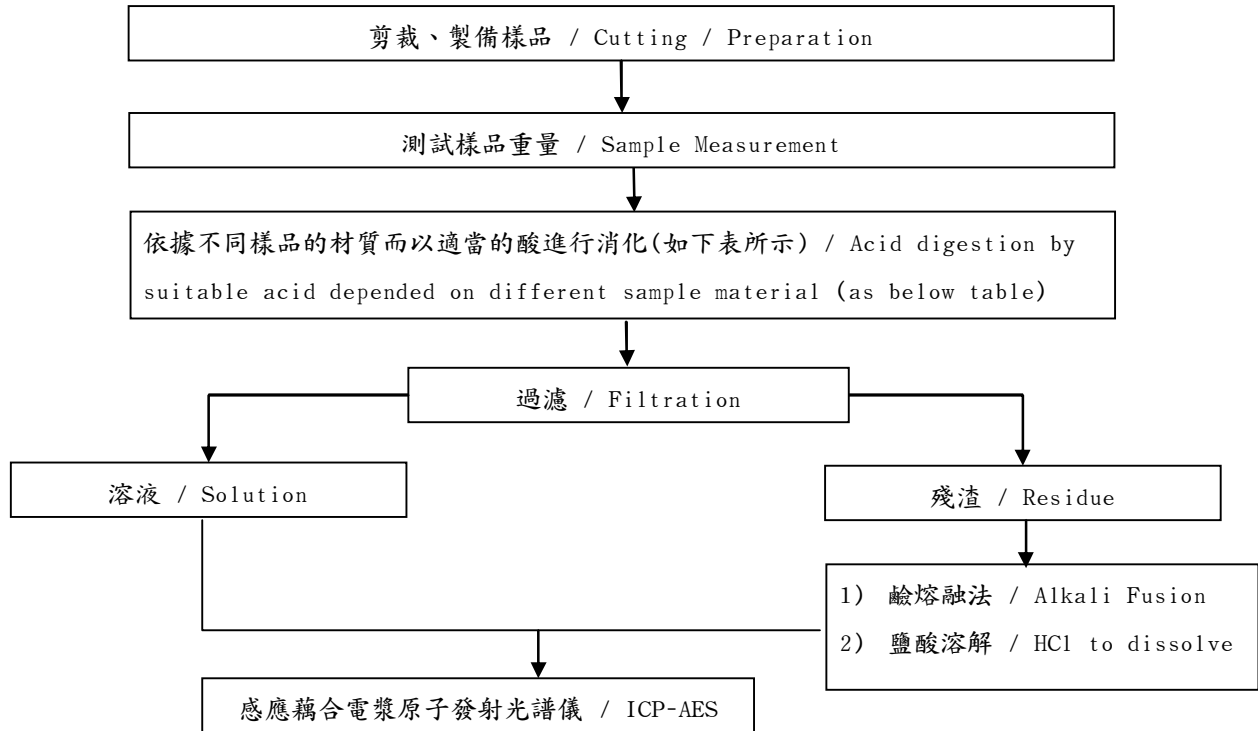
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員：張啓興 / Name of the person who made measurement: Troy Chang
- 3) 測試負責人：龔振裕 / Name of the person in charge of measurement: Chenyu Kung

### 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

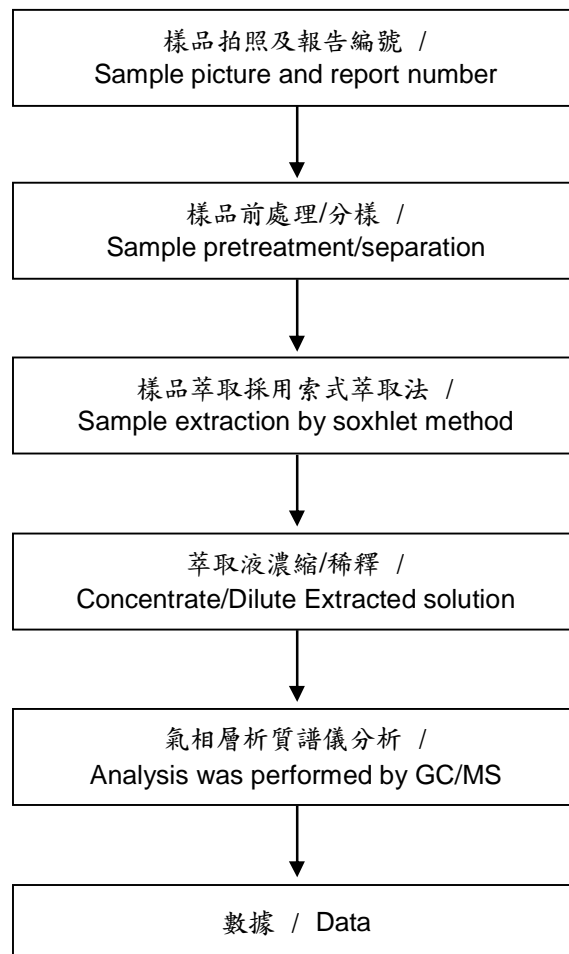
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## 可塑劑分析流程圖 / Analytical flow chart of phthalate content





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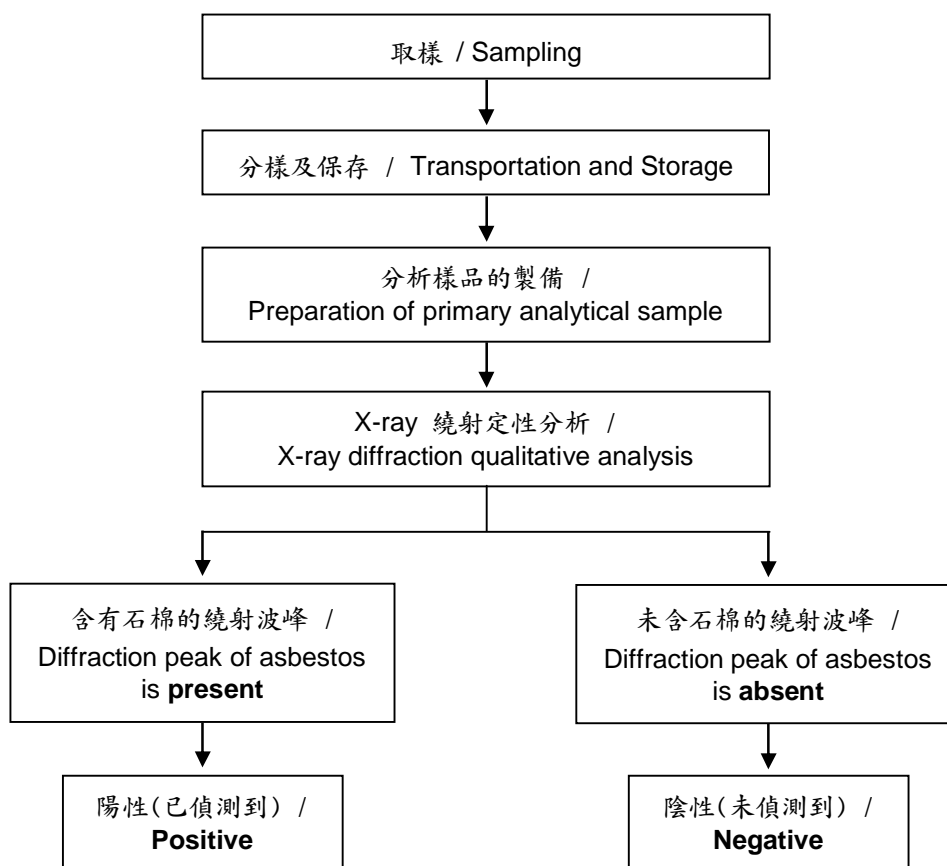
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## 石棉物質判定分析流程圖 /

### Analysis flow chart for determination of Asbestos



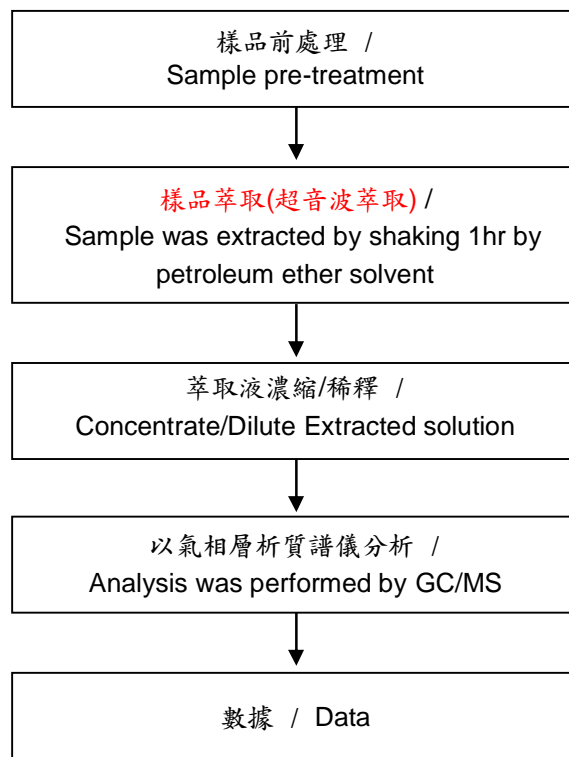
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## 多苯環芳香族化合物分析流程圖 / PAHs (Poly Aromatic Hydrocarbons) analytical flow chart



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\*\* 報告結尾 \*\*