

設計驗證
工程課
2025 -03- 17
發行
鈺緯科技開發股份有限公司

樣 品 黏 貼 處

德鴻奇實業有限公司

DHQ INDUSTRY CO., LTD.

新北市五股區五權七路 68 號 3 樓

TEL：(02) 2628-2250 FAX：(02) 2628-2251

承 認 書

SPECIFIC ATION

客戶名稱

CUSTOMER: 鈺緯科技開發股份有限公司

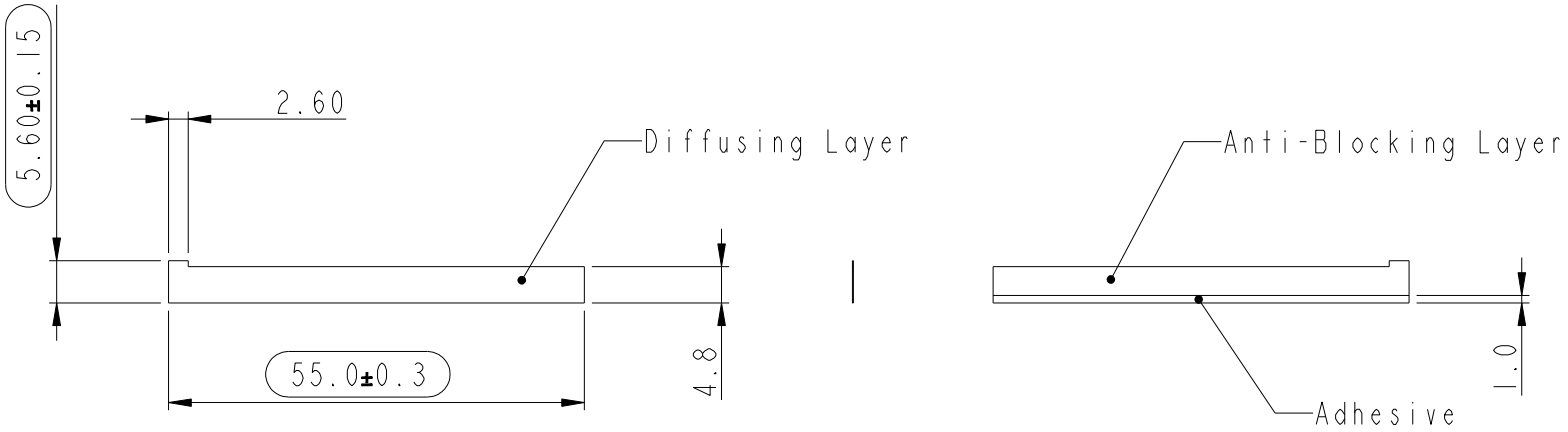
DHQ - 品名及規格	客戶 – 機種、料號及規格
SKC-CH28T 擴散片 55*5.6mm	3MDLE3FM110 擴散片- 55*5.6mm

SUPPLIED	APPROVED
供應廠商	客戶承認
德鴻奇實業有限公司	設計驗證 工程課 2025 -03- 17 發行 鈺緯科技開發股份有限公司

PLEASE RETURN ONE COPY WITH YOUR APPROVED SIGNATURES

承認後請寄回本書一份 THANK YOU 謝謝 ！

REV.	DATE	DESCRIPTION	BY	APVD
0	2024-12-04	RELEASE FOR PRODUCTION	Laslie	



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NOTE:
1.Material: PET, CH28T t=125 um.
2.Adhesive.
3.RoHS Compliant.
4.DIVA QC Inspection Document NO.:QWI-024 (Spacer/Other)

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION			
				V
	fine	medium	coarse	Rubber/Sponge/Mylar/Gasket
0.5 UP TO 3	±0.05	±0.1	±0.2	±0.2
OVER 3~6	±0.05	±0.1	±0.3	±0.2
OVER 6~30	±0.1	±0.2	±0.5	±0.25
OVER 30~120	±0.15	±0.3	±0.8	±0.3
OVER 120~400	±0.2	±0.5	±1.2	±0.5
OVER 400~1000	±0.3	±0.8	±2.0	±0.8

ANGLE ±1° (±1.75/100)

THIRD ANGLE PROJECTION

UNITS: mm	SCALE: 1/1	SHEET: 1 OF 1	MODEL NO.: GE 3.7 inch	
MATERIAL: See note		TREATMENT:		
DSGD by	Laslie	2024-12-03	PART NAME:	FILM LIGHT DIFFUSING
CHK by	Ferris	2024-12-03	DIVA P/N:	3MDLE3FM110
APVD by	Laslie	2024-12-04	GE P/N:	5951304
APVD NO.: (M2447)		3D FILE NAME: 5951304	DIVA Laboratories ,Ltd.	

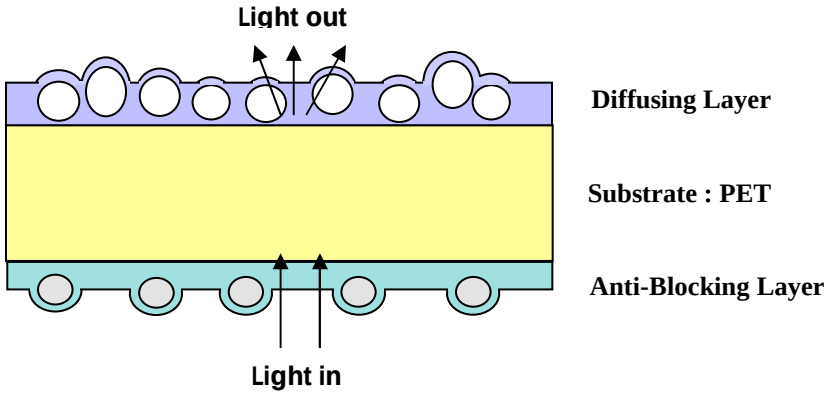
○ PRODUCT DESCRIPTION

CH28T is a both sides coated polyester film on which light diffusive beads and easy-slip purpose beads spread , with the feature of ;

◇ adequate haze brings out the excellent shade for any patterned light guide pannel

◇ uniform size distribution of beads produce the better brightness than CH27

◇ uniform surface result in less variation of optical property in backlight unit



○ TYPICAL PROPERTY

		Unit	Value	Test Method
General				
Total Thickness		㎛	125	SKC Method
Density		g/㎤	1.38	ASTM D1505
Optical				
Transmittance		%	73.5	ASTM D1003
Haze		(front/back)	95.4	
60 ° Gloss	DL	%	11.4	ASTM D523
	AL		98.9	
Mechanical				
Tensile Strength	MD	Kg/㎟	14.6	ASTM D882
	TD		16.9	
Elongation	MD	%	145.6	
	TD		122.3	
Thermal				
Heat Shrinkage	MD	%	1.1	SKC Method (150℃*30min)
	TD		0.8	
Heat Expansion	MD	㎝/㎝/℃	$8.9*10^{-4}$	SKC Method
	TD		$9.2*10^{-4}$	
Electrical				
Surface Resistivity	DL	Ω/□	10^{14}	ASTM D257 (23℃*50%RH)
	AL		10^{10}	

* DL : Diffusing layer, AL : Anti-blocking layer

467MP Transfer Tape

Product Data Sheet

Updated : November 2001
Supersedes : February 1999

Product Description

A-30 is a firm acrylic pressure-sensitive adhesive system. It features high ultimate bond strength with excellent high temperature performance and excellent solvent resistance. Bond strength increases substantially with natural ageing.

467 is a long ageing resistant product used extensively by the nameplate industry.

Physical Properties
Not for specification purposes

Adhesive Type	Firm Acrylic	**3M ref :** A-30
Thickness (ASTM D-3652) Tape Liner Total	 50 µm 2 Thou 100 µm 150 µm	
Release Liner	Tan printed polycoated paper.	
Tape Colour	Clear	
Shelf Life	24 months from date of despatch by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity	

Performance Characteristics
Not for specification purposes

Adhesion to Stainless Steel ASTM D-3330	5.5 N/10mm	
Shear Resistance	High	
Temperature Performance Max : Minutes / Hours Max : Days / Weeks Minimum	 204 °C 149 °C -30 °C	
Solvent Resistance	Excellent. When the adhesive is properly applied to impervious materials, it will resist solvent attack and adhesive softening through edge contact with mild acids and alkalines, oils, grease, gasoline kerosene, JP-4 fuel, and many other standard aromatic and aliphatic solvents. However, it is not recommended for uses where continuous immersion is required.	

Date : November 2001
467MP Transfer Tape

Performance Characteristics (Cont..)
Not for specification purposes

UV Light Resistance	Excellent. Will not oxidise when exposed to air or sunlight UV.
Water Resistance	Excellent. There are no evident adverse effects on the bond of properly applied materials after immersion in 21°C water for about 100 hours.

Additional Product Information

The legend Hi Performance No. 467 is imprinted on the release liner.
467MP is designed with a moisture resistant release liner which resists cockling or wrinkling from high humidity.
The 50 micron thick adhesive is ideally suited for joining materials that are relatively smooth, thin and have low residual stress. If rough or thick materials with a small degree of residual stress are to be joined, then the 130 micron thick adhesive should be considered

Application Techniques

1. Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure develops better adhesive contact & thus improves bond strength.

2. To obtain optimum adhesion, the bonding surfaces must be clean dry and well unified. A typical surface cleaning solvent is isopropyl alcohol & water. Use proper safety precautions for handling solvents.

3. Ideal tape application temperature range is 21°C to 38°C (70°F to 100°F).

Initial tape application to surfaces at temperatures below 10°C (50°F) is not recommended because the adhesive becomes too firm to adhere readily. However once properly applied low temperature holding is generally satisfactory.

Applications

467MP is well suited for bonding together a wide variety of similar and dissimilar materials such as metals, paints, wood, glass and some plastics.

An excellent adhesive for mounting nameplates and decorative trim.

Automotive Industry.

Specifications

This tape meets the requirements of U.S. Government specification MIL-P-19834, Amendment 1, Type 1.

467MP is a UL and AGA recognised product.

3M is a trademark of the 3M Company.

Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications.
This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.

Tapes & Adhesives

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3M United Kingdom PLC
3M House,
28 Great Jackson Street,
Manchester,
M15 4PA

Product Information :

Tel 0870 60 800 50
Fax 0870 60 700 99

3M Ireland
3M House, Adelphi Centre,
Upper Georges Street,
Dun Laoghaire,Co. Dublin,
Ireland

Customer Service :

Tel (01) 280 3555
Fax (01) 280 3509

Test Report Number : TWNC00236308

Applicant: 宏森光電科技份有限公司 Date : Jan 13, 2012
Hi-Light Tek. Co., Ltd.
新竹縣湖口鄉新竹工業區文化路 24 號 5 樓
5F No.24 Wen-Huah Rd., Hsin-Chu Industrial Park Hsin-Chu Taiwan R.O.C.

宏茂光電科技股份有限公司
Hi-Light Tec (Suzhou) Co., Ltd.
蘇州工業園區婁東路 5 號
No.5 Loudong Rd., Suzhou Industrial Park Suzhou P.R.C.

宏邦光電科技股份有限公司
Hi-Light Tec (Dongguan) Co., Ltd
廣東省東莞市清溪鎮濱河西路富士工業城 4 號廠房
4th Building Fushi Industrial Zone Binhe West Rd., Qingxi Town Dongguan Guangdong P.R.C.

台灣愛思開哈斯光電科技股份有限公司
SKC Haas Display Films Taiwan Ltd.
台北市松山區復興北路 337 號 13 樓
13F No.337, Fu Xing N.Rd., Taipei 105, Taiwan (R.O.C.)

宏丞光電(廈門)有限公司
Hi-Light Tek(Xiamen)Co., Ltd.
廈門火炬高新區(翔安)產業區舫山南路 9 號
No.9 Fang Shan South Road, Xiamen Torch Hi-tech(XiangAn) Industrial Area, Xiamen

Sample Description:
One (1) group of submitted samples said to be :
以下測試樣品乃供應商所提供及確認:

Sample Description 樣品名稱	:	下擴散片
Style / Item No. 產品型號	:	Please See Page Two To Five
Date Sample Received 收件日期	:	Dec 09, 2011
Date Test Started 開始測試日期	:	Dec 12, 2011

Test Conducted 測試執行 :
As requested by the applicant, for details please refer to attached pages.
依申請商之要求 , 細節請參考附頁 .

Authorized By:
On Behalf Of Intertek Testing Services Taiwan Limited

K. Y. Liang
Director

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Intertek Testing Services Taiwan Ltd.
8F., No. 423, Ruiguang Rd., Neihu District, Taipei 114, Taiwan, R.O.C.
全國公證檢驗股份有限公司
114 台北市內湖區瑞光路 423 號 8 樓
Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

Test Report Number : TWNC00236308

Sample Description 樣品敘述
Style / Item No. 產品型號 :

Down Diffuser：CHXXX、XLXXX

CH14 -
CH14A/C/D/I/K/L/M/M1/M2/M3/M4/N/P/S/T/TA/TK/U/X/NB/NL/NK/NH/NH4/NH6/NH9/HL/ANH/BNH/CNH/DNH/ANK/BNK/CNK/DNK
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CH191 -
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On Behalf Of Intertek Testing Services
Taiwan Limited

INTERTEK TESTING SERVICES TAIWAN LTD.

K. Y. Liang
Director

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8F., No. 423, Ruiguang Rd., Neihu District, Taipei 114, Taiwan, R.O.C.
全國公證檢驗股份有限公司
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CH283 -
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CH50 -
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XL501A/C/D/I/K/L/M/M1/M2/M3/M4/N/P/S/S1/T/TA/TK/U/X/NB/NL/NK/NH/NH4/NH6/NH9/HL/ANH/BNH/CNH/DNH/ANK/BNK/CNK/DNK、
XL502 -
XL502A/C/D/I/K/L/M/M1/M2/M3/M4/N/P/S/S1/T/TA/TK/U/X/NB/NL/NK/NH/NH4/NH6/NH9/HL/ANH/BNH/CNH/DNH/ANK/BNK/CNK/DNK、
XL503 -
XL503A/C/D/I/K/L/M/M1/M2/M3/M4/N/P/S/S1/T/TA/TK/U/X/NB/NL/NK/NH/NH4/NH6/NH9/HL/ANH/BNH/CNH/DNH/ANK/BNK/CNK/DNK、
XL504 -
XL504A/C/D/I/K/L/M/M1/M2/M3/M4/N/P/S/S1/T/TA/TK/U/X/NB/NL/NK/NH/NH4/NH6/NH9/HL/ANH/BNH/CNH/DNH/ANK/BNK/CNK/DNK)。

Authorized By:
On Behalf Of Intertek Testing Services Taiwan Limited



K. Y. Liang
Director

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Intertek Testing Services Taiwan Ltd.
8F., No. 423, Ruiguang Rd., Neihu District, Taipei 114, Taiwan, R.O.C.
全國公證檢驗股份有限公司
114 台北市內湖區瑞光路 423 號 8 樓
Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

Number : TWNC00236308

Test Conducted

(Ⅰ) Test Result Summary 測試結果:

Banned – Class A Substances A 級禁用物質

編號 NO.	Test Item 測試項目	Result 結果 (ppm)
		Semitransparent plastic sheet
1	Lead (Pb) Content / 鉛含量	ND
2	Cadmium (Cd) Content / 鎘含量	ND
3	Mercury (Hg) Content / 汞含量	ND
4	Chromium VI (Cr^{6+}) Content / 六價鉻含量	ND
5	**Polybrominated Biphenyls (PBBs) / 多溴聯苯**	
	Monobrominated Biphenyls (MonoBB) / 單溴聯苯	ND
	Dibrominated Biphenyls (DiBB) / 二溴聯苯	ND
	Tribrominated Biphenyls (TriBB) / 三溴聯苯	ND
	Tetrabrominated Biphenyls (TetraBB) / 四溴聯苯	ND
	Pentabrominated Biphenyls (PentaBB) / 五溴聯苯	ND
	Hexabrominated Biphenyls (HexaBB) / 六溴聯苯	ND
	Heptabrominated Biphenyls (HeptaBB) / 七溴聯苯	ND
	Octabrominated Biphenyls (OctaBB) / 八溴聯苯	ND
	Nonabrominated Biphenyls (NonaBB) / 九溴聯苯	ND
	Decabrominated Biphenyl (DecaBB) / 十溴聯苯	ND
6	**Polybrominated Diphenyl Ethers (PBDEs) / 多溴聯苯醚**	
	Monobrominated Diphenyl Ethers (MonoBDE) / 單溴聯苯醚	ND
	Dibrominated Diphenyl Ethers (DiBDE) / 二溴聯苯醚	ND
	Tribrominated Diphenyl Ethers (TriBDE) / 三溴聯苯醚	ND
	Tetrabrominated Diphenyl Ethers (TetraBDE) / 四溴聯苯醚	ND
	Pentabrominated Diphenyl Ethers (PentaBDE) / 五溴聯苯醚	ND
	Hexabrominated Diphenyl Ethers (HexaBDE) / 六溴聯苯醚	ND
	Heptabrominated Diphenyl Ethers (HeptaBDE) / 七溴聯苯醚	ND
	Octabrominated Diphenyl Ethers (OctaBDE) / 八溴聯苯醚	ND
	Nonabrominated Diphenyl Ethers (NonaBDE) / 九溴聯苯醚	ND
	Decabrominated Diphenyl Ether (DecaBDE) / 十溴聯苯醚	ND
	Halogen Content / 鹵素含量	
--	Fluorine (F) / 氟	ND
7	Chlorine (Cl) / 氯	ND
8	Bromine (Br) / 溴	ND
--	Iodine (I) / 碘	ND

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Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

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Test Conducted

(Ⅰ) Test Result Summary 測試結果:

Banned – Class B Substances B 級禁用物質

編號 NO.	Test Item 測試項目	Result 結果 (ppm)
		Semitransparent plastic sheet
9	Short Chain Chlorinated Paraffins (C10~C13) / 短鏈氯化石蠟	ND
10.1	Polychlorinated Biphenyls (PCBs) / 多氯聯苯	ND
10.2	Polychlorinated Terphenyls (PCTs) / 多氯三聯苯	ND
11	Polychloroinated Phenols (PCPs) / 多氯酚	ND
12	Polychlorinated Naphthalenes (PCNs) / 多氯化萘	ND
13	**Persistent Organic Pollutants (POPs) / 持久性有機污染物**	
	Mirex / 滅蟻靈	ND
	Chlordanes / 氯丹	ND
	DDT / 二氯二苯三氯乙烷	ND
	Endrin / 異狄氏劑	ND
	Dieldrin / 狄氏劑	ND
	Toxaphene / 毒殺芬	ND
	Chlorobenzene / 氯化苯	ND
	Dichlorobenzene / 二氯苯	ND
	Trichlorobenzene / 三氯苯	ND
	1,2,3-Trichlorobenzene / 1,2,3-三氯苯	ND
	1,2,4-Trichlorobenzene / 1,2,4-三氯苯	ND
	1,3,5-Trichlorobenzene / 1,3,5-三氯苯	ND
	Tetrachlorobenzene / 四氯苯	ND
	Pentachlorobenzene / 五氯苯	ND
	Hexachlorobenzene / 六氯苯	ND
	Aldrin / 艾氏劑	ND
	Heptachlor / 飛佈達	ND
	Dioxin / 戴奧辛(包含:多氯二聯苯戴奧辛(PCDDs))	All not detected (See appendix 1)
	Furans / 呋喃(包含：多溴二聯苯呋喃(PBDFs)和多氯二聯苯呋喃(PCDFs))	All not detected (See appendix 1)
	Polychlorinated biphenyls / 多氯聯苯	ND
	Kelthane or Dicofol / 大克蟎	ND
	Chlordecone / 十氯酮	ND
	Lindane / 靈丹	ND
	Alpha hexachlorocyclohexane / α-六氯化苯	ND
	Beta hexachlorocyclohexane / β-六氯化苯	ND

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Test Conducted

(Ⅰ) Test Result Summary 測試結果:

Banned – Class B Substances B 級禁用物質

編號 NO.	Test Item 測試項目	Result 結果 (ppm)
		Semitransparent plastic sheet
14	Polyvinyl Chloride (PVC) / 聚氯乙烯和聚氯乙烯混合物	Negative
15-1	**Ozone Depleting Substances (ODS) / 臭氧危害物質**	
	Chlorofluorocarbon (CFCs) (Class I, Group I) / 氟氯碳化物	ND
	Halon (Class I, Group II) / 海龍	ND
	Chlorofluorocarbon (CFCs) (Class I, Group III) / 氟氯碳化物	ND
	Carbon Tetrachloride (CCl4)(Class I, Group IV) / 四氯化碳	ND
	1,1,1-Trichloroethane (Class I, Group V) / 1,1,1-三氯乙烷	ND
	Bromomethane (Class I, Group VI) / 溴甲烷	ND
	Hydrobromofluorocarbon (HBFCs) (Class I, Group VII) / 氟溴烃	ND
	Chlorobromomethane (Class I, Group VIII) / 溴氯甲烷	ND
	Hydrochlorofluorocarbon (HCFCs) (Class II) / 氫氟氯烃	ND
15-2	**Ozone Depleting Substance Subsititutes / 臭氧危害物質替代物**	
	Perfluorocarbon (PFC) / 全氟化碳	ND
	Hydrofluorocarbon (HFC) / 氫氟烃	ND
	Sulfur Hexafluoride (SF_6) / 六氟化硫	ND
16	**Alphatic CHCs / 脂肪族氯碳氫化合物**	
	Dichloromethane / 二氯甲烷	ND
	1,1-Dichloroethane / 1,1-二氯乙烷	ND
	1,2-Dichloroethane / 1,2-二氯乙烷	ND
	1,1-Dichloroethylene / 1,1-二氯乙烯	ND
	trans-1,2-Dichloroethylene / 順式1,2-二氯乙烯	ND
	cis-1,2-Dichloroethylene / 反式1,2-二氯乙烯	ND
	1,3-Dichloropropene / 1,3-二氯丙烯	ND
	Trichloromethane / 三氯甲烷	ND
	1,1,1-Trichloroethane / 1,1,1-三氯乙烷	ND
	1,1,2-Trichloroethane / 1,1,2-三氯乙烷	ND
	Trichloroethylene / 三氯乙烯	ND
	1,1,1,2-Tetrachloroethane / 1,1,1,2-四氯乙烷	ND

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Test Conducted

(Ⅰ) Test Result Summary 測試結果:

Banned – Class B Substances B 級禁用物質

編號 NO.	Test Item 測試項目	Result 結果 (ppm)
		Semitransparent plastic sheet
	1,1,2,2-Tetrachloroethane / 1,1,2,2-四氯乙烷	ND
	Tetrachloroethylene / 四氯乙烯	ND
	Pentachloroethane / 五氯乙烷	ND
	Tetrachloromethane / 四氯甲烷	ND
	Hexachloroethane / 六氯乙烷	ND
17	**Halogenated Flame Retardants / 鹵素耐燃劑**	
	Tetrabromobisphenol-A-Bis(2,3-Dibromopropylether) (TBBP-A-BIS) / 四溴雙酚-A-雙(2,3-二溴丙醚)	ND
	Tetrabromobisphenol A (TBBPA) / 四溴雙酚-A	ND
	Hexabromocyclododecane (HBCDD) / 六溴環十二烷	ND
	Hexabromobenzene / 六溴苯	ND
	Tris-(2,3-Dibromopropyl)Phosphate / 磷酸三(2,3-二溴丙基)酯	ND
18	**Polycyclic Aromatic Hydrocarbons (PAHs) / 多環芳香族化合物**	
	Naphthalene / 萘	ND
	Acenaphthylene / 苊烯	ND
	Acenaphthene / 苊	ND
	Fluorene / 芴	ND
	Phenanthrene / 菲	ND
	Anthracene / 蒽	ND
	Fluoranthene / 荧蒽	ND
	Pyrene / 芘	ND
	Chrysene / 屈	ND
	Benzo[a]Anthracene / 苯并[a]蒽	ND
	Benzo[b]Fluoranthene / 苯并[b]荧蒽	ND
	Benzo[k]Fluoranthene / 苯并[k]荧蒽	ND
	Benzo[j]Fluoranthene / 苯并[j]荧蒽	ND
	Benzo[a]Pyrene / 苯并[a]芘	ND
	Benzo[e]Pyrene / 苯并[e]芘	ND
	Indeno[1,2,3-cd]Pyrene / 茚并[1,2,3-c,d]芘	ND
	Dibenzo[a,h]Anthrancene / 二苯并[a,h]蒽	ND
	Benzo[g,h,i]Perylene / 苯并[g,h,i]苝	ND

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(Ⅰ) Test Result Summary 測試結果:

Banned – Class B Substances B 級禁用物質

編號 NO.	Test Item 測試項目	Result 結果 (ppm)
		Semitransparent plastic sheet
19	Medium Chain Chlorinated Paraffins (C14~C17) / 中鏈氯化石蠟	ND
20	Hexachlorobuta-1,3-Diene / 六氯丁二烯	ND
21/22	Beryllium (Be) Content / 鈹含量	ND
23	Nickel (Ni) Content / 鎳含量	ND
24	Triclosan / 三氯沙	ND
25	Antimony (Sb) Content / 銻含量	96
26	Arsenic (As) Content / 砷含量	ND
27	Asbestos / 石綿	Negative
28	**Azo Dyes Compounds (Specific Amine) / 偶氮化合物**	
	4-Aminobiphenyl / 4-氨基聯苯 (CAS No: 92-67-1)	ND
	Benzidine / 聯苯胺 (CAS No: 92-87-5)	ND
	4-Chloro-O-Toluidine / 4-氯鄰甲苯胺 (CAS No: 95-69-2)	ND
	2-Naphthylamine / 2-奈胺 (CAS No: 91-59-8)	ND
	O-Aminoazotoluene / 鄰氨基二甲基偶氮苯 (CAS No: 97-56-3)	ND
	2-Amino-4-Nitrotoluene / 2-氨-4-硝基甲苯 (CAS No: 99-55-8)	ND
	P-Chloroaniline / 4-氯苯胺 (CAS No: 106-47-8)	ND
	2,4-Diaminoanisole / 2,4'-二氨茴香醚 (CAS No: 615-05-4)	ND
	4,4’-Diaminobiphenylmethane / 4,4'-二氨基二苯甲烷 (CAS No: 101-77-9)	ND
	3,3’-Dichlorobenzidine / 3,3'-二氯聯苯胺 (CAS No: 91-94-1)	ND
	3,3’-Dimethoxybenzidine / 3,3'-二甲氧基聯苯胺 (CAS No: 119-90-4)	ND
	3,3’-Dimethylbenzidine / 3,3'-二甲基聯苯胺 (CAS No: 119-93-7)	ND
	3,3’-Dimethyl-4,4’-Diaminobiphenylmethane / 3,3'-二甲基-4,4'-二氨基二苯甲烷） (CAS No: 838-88-0)	ND
	P-Cresidine / 2-甲氧基-5 甲基苯胺 (CAS No: 120-71-8)	ND
	4,4’-Methylene-Bis-(2-Chloroaniline) / 4,4'-亞甲基-雙-(2-氯苯胺) (CAS No: 101-14-4)	ND
	4,4’-Oxydianiline / 4,4'-二胺基聯苯醚 (CAS No: 101-80-4)	ND

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(Ⅰ) Test Result Summary 測試結果:

Banned – Class B Substances B 級禁用物質

編號 NO.	Test Item 測試項目	Result 結果 (ppm)
		Semitransparent plastic sheet
	4,4'-Thiodianiline / 4,4'-硫苯胺 (CAS No: 139-65-1)	ND
	O-Toluidine / 鄰甲苯胺 (CAS No: 95-53-4)	ND
	2,4-Toluylendiamine / 2,4-二氨基甲苯 (CAS No: 95-80-7)	ND
	2,4,5-Trimethylaniline / 2,4,5-三甲苯胺 (CAS No: 131-17-7)	ND
	o-Anisidine / 鄰甲氧基苯胺 (CAS No: 90-04-0)	ND
	4-Aminoazobenzene / 4-胺基偶氮苯 (CAS No: 60-09-3)	ND
	2,4-Xylidine / 2,4-二甲苯胺 (CAS No: 95-68-1)	ND
	2,6-Xylidine / 2,6-二甲苯胺 (CAS No: 87-62-7)	ND
29	Formaldehyde / 甲醛	ND
30	N-p-phenylenediamine / 苯二胺類化合物	ND
31	2,4,6-Tri-Tert-Butylphenol / 2,4,6-三叔丁基苯酚	ND
32	Ethylene glycol monomethyl ether and its acetate / 乙二醇甲醚及其酯化物	ND
33	Ethylene glycol monoethyl ether and its acetate / 乙二醇乙醚及其酯化物	ND
34	Radioactive Substances / 放射性物質	Under Background (See Appendix 2)
35	Bisphenol-A / 雙酚-A	ND
36	**Phthalates / 鄰苯二甲酸酯**	
	Di(2-ethylhexyl) Phthalate (DEHP)/ 鄰苯二甲酸二(2-乙基己基)酯	ND
	Dibutyl Phthalate (DBP)/ 鄰苯二甲酸二丁酯	ND
	Benzyl Butyl Phthalate (BBP)/ 鄰苯二甲酸苯基丁酯	ND
	Di-(Iso-Nonyl) Phthalate (DINP)/ 鄰苯二甲酸二異壬酯	ND
	Di-(Iso-Decyl) Phthalate (DIDP)/ 鄰苯二甲酸二異壬酯	ND
	Di-(N-Octyl) Phthalate (DNOP)/ 鄰苯二甲酸二辛酯	ND
	Dimethyl phthalate (DMP) / 鄰苯二甲酸二甲酯	ND
	Diethyl phthalate (DEP) / 鄰苯二甲酸二乙酯	ND
	Bis(2-Methoxyethyl)phthalate (DMEP) / 鄰苯二甲酸(2-乙基甲醚)酯	ND
	Diisobutyl phthalate (DIBP) / 鄰苯二甲酸二異丁酯	ND
37	Hexachlorocyclohexane (HCH) / 六氯環己烷	ND

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Banned – Class B Substances B 級禁用物質

編號 NO.	Test Item 測試項目	Result 結果 (ppm)
		Semitransparent plastic sheet
	Alkylphenols / 烷基酚	
38-1	Nonylphenol (NP) / 壬基苯酚	ND
39-1	Octylphenol (OP) / 辛基苯酚	ND
	Alkylphenol Ethoxylates / 烷基酚聚乙氧基醇類	
38-2	Nonylphenol Ethoxylates (NPEO) / 壬基苯酚聚乙氧基醇類	ND
39-2	Octylphenol Ethoxylates (OPEO) / 辛基苯酚聚乙氧基醇類	ND
40	Perfluorooctane Sulfonates (PFOS) / 全氟辛磺酸	ND
41	Perfluorooctanoic Acid (PFOA) / 全氟辛酸	ND
	Synthetic Musks / 合成麝香	
42-1	Musk Xylene / 麝香二甲苯	ND
42-2	Musk Ketone / 麝香酮	ND
46	Cobalt Dichloride (As Cobalt) / 二氯化鈷(以鈷計)	ND
47	**Specific Benzotriazole / 特定苯并三氮唑**	
	Phenol, 2-(2h-Benzotriazol-2-Yl)-4,6-*Bis*-(1,1-Dimethylethyl) / 2-(2'-羥基-3',5'-二-叔-戊基苯基)苯并三唑 (CAS No: 25973-55-1)	ND
	Phenol, 2,4-*Di-Tert*-Butyl-6-(5-Chloro-2h-1,2,3benzotriazol-2-Yl) / 2-(2'-羥基-3',5'-二-叔-丁基苯基)-5-氯代-苯并三唑 (CAS No: 3864-99-1)	ND
	Phenol, 2-(2h-Benzotriazole-2-Yl)-4-(*Tert*-Butyl)-6-(*Sec*-Butyl) / 2-(2-羥基-3'-仲-丁基-,5'-叔-丁基苯基)-苯并三唑 (CAS No: 36437-37-3)	ND
	Phenol, 2-(2h-Benzotriazol-2-Yl)-4,6-*Di-Tert*-Butyl-(7cl,8cl) / 2-(2-羥基-3',5'-二-叔-丁基苯基)-苯并三唑 (CAS No: 3846-71-7)	ND
48	**Surfactants / 界面活性劑**	
	DTDMAC / 二牛油基二甲基氯化銨	ND
	DODMAC/DSDMAC / 双十八烷基二甲基氯化銨/二硬脂基二甲基氯化銨	ND
	DHTDMAC / 二氫化牛油二甲基氯化銨	ND

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(Ⅰ) Test Result Summary 測試結果:

Banned – Class B Substances B 級禁用物質

編號 NO.	Test Item 測試項目	Result 結果 (ppm)
		Semitransparent plastic sheet
49	**Organotin Compounds / 有機錫化合物**	
	Tributyltin (TBT) Included TBTO / 三丁基錫化合物	ND
	Triphenyltin (TPhT) / 三苯基錫化合物	ND
	Monobutyltin (MBT) / 單丁基錫化合物	ND
	Dibutyltin (DBT) / 二丁基錫化合物	ND
	Tetrabutyltin (TeBT) / 四丁基錫化合物	ND
	Monooctyltin (MOT) / 單八基錫化合物	ND
	Dioctyltin (DOT) / 雙八基錫化合物	ND
	Tricyclohexyltin chloride (TcyT) / 三環六基錫化合物	ND
50	Sulfur Hexafluoride (SF_6) / 六氟化硫	ND
52	Dimethylfurmarate (DMFu) / 富馬酸二甲酯	ND
53	Selenium (Se) Content / 硒含量	ND
54	**Halogenated Diphenyl Methanes 鹵化二苯基甲烷**	
	Monomethyl Tetrachlorodiphenyl Methane (Ugilec 141) / 單甲基四氯二苯基甲烷	ND
	Monomethyl Dichlorodiphenyl Methane (Ugilec 121) / 單甲基二氯二苯基甲烷	ND
	Monomethyl Dibromodiphenyl Methane (DBBT) / 單甲基二溴二苯基甲烷	ND

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8F., No. 423, Ruiguang Rd., Neihu District, Taipei 114, Taiwan, R.O.C.
全國公證檢驗股份有限公司
114 台北市內湖區瑞光路 423 號 8 樓
Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

Number : TWNC00236308

Test Conducted

(Ⅰ) Test Result Summary 測試結果:

Reporting Substances 需註明物質

編號 NO.	Test Item 測試項目	Result 結果 (ppm)
		Semitransparent plastic sheet
55	Cyclododecane / 環十二烷	ND
56	Triphenyl Phosphate (TPP) / 磷酸三苯酯	ND
57	Expand Polystrene foam (EPS) / 發泡聚苯乙烯	Negative
58	Barium (Ba) Content / 鋇含量	ND
59	Bismuth (Bi) Content / 鉍含量	ND
60	Cobalt (Co) Content / 鈷含量	ND
61	Copper (Cu) Content / 銅含量	ND
62	Cyanides / 氰化物	ND
63	Gold (Au) Content / 金含量	ND
65	Magnesium (Mg) Content / 鎂含量	4
66	Palladium (Pd) Content / 鈀含量	ND
67	Silver (Ag) Content / 銀含量	ND
68	Tellurium (Te) Content / 碲含量	ND
69	Thallum (Tl) Content / 鉈含量	ND
70	**Benzenes / 苯**	
	Benzene / 苯	ND
72	Chromium (Cr) Content / 鉻含量	ND
74	**Specific Anthracene Oil / 特定蒽油類**	
	Anthracene Oil 蒽油	ND
	Anthracene Oil, Anthracene Paste, Distn. Lights / 蒽油, 蒽糊, 輕油	ND
	Anthracene Oil, Anthracene Paste, Anthracene Fraction / 蒽油, 蒽糊, 蒽餾分離液	ND
	Anthracene Oil, Anthracene-Low / 蒽油, 含蒽量少	ND
	Anthracene Oil, Anthracene Paste / 蒽油, 蒽糊	ND
75	Pitch, Coal Tar, High Temp. / 煤瀝青, 高溫	ND
76	Acrylamide / 丙烯醯胺	ND
77	**Specific Aluminosilicate, Refractory Ceramic Fibres / 特定矽酸鋁耐火陶瓷纖維**	
	Aluminosilicate Refractory Ceramic Fibres / 矽酸鋁, 陶瓷耐火纖維	ND
	Zirconia Aluminosilicate, Refractory Ceramic Fibres / 矽酸鋁氧化鋯, 陶瓷耐火纖維	ND

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Reporting Substances 需註明物質

編號 NO.	Test Item 測試項目	Result 結果 (ppm)
		Semitransparent plastic sheet
78	**Specific Lead Chromate / 特定鉻酸鉛類**	
	Lead Chromate / 鉻酸鉛	ND
	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) / 紅色鉬鉻酸鉛硫酸鹽 (C.I.紅色 104)	ND
	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) / 黃色硫化鉻酸鉛 (C.I.黃色 34)	ND
79	Gallium (Ga) Content / 鎵含量	ND
80	**Boric acid and derivatives / 硼酸及其衍生物**	
	Boric Acid / 硼酸	ND
	Disodium Tetraborate, Anhydrous / 無水四硼酸二鈉	ND
	Tetraboron Disodium Heptaoxide, Hydrate / 含水七氧化四硼酸二鈉	ND
--	**Phosphorus Based Flame Retardants / 有機磷阻燃劑**	
	Tris(2-Chloroethyl) Phosphate (TCEP) / 磷酸三(2-氯乙基)酯	ND
	Trimethyl Phosphate (TMP) / 磷酸三甲酯	ND
--	ZINC (Zn) Content / 鋅含量	ND
--	BORON (B) Content / 硼含量	ND
--	Indium (In) Content / 銦含量	ND
--	Manganese (Mn) Content / 錳含量	ND
--	Molybdenum (Mo) Content / 鉬含量	ND
--	Vanadium (V) Content / 釩含量	ND
--	Palladium (Pa) Content / 鈀含量	ND
--	Hexachlorobuta-1,3-diene / 六氯丁二烯	ND
--	Ethy acetate (EA) / 乙酸乙酯	ND
--	**Chromium VI Compound 六價鉻化合物**	
	Sodium Chromate / 鉻酸鈉	ND
	Potassium Chromate / 鉻酸鉀	ND
	Ammonium Dichromate / 重鉻酸胺	ND
	Potassium Dichromate / 重鉻酸鉀	ND
	Chromium Trioxide / 三氧化鉻	ND
	Acids generated from chromium trioxide and their oligomers / 由三氧化鉻和其他低聚物形成的酸類	ND

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Reporting Substances 需註明物質

編號 NO.	Test Item 測試項目	Result 結果 (ppm)
		Semitransparent plastic sheet
--	Strontium chromate / 鉻酸鍶	ND
	Dichromium Tris(Chromate) / 鉻酸鉻	ND
	Potassium Hydroxyoctaoxodizincatedi-Chromate / 氫氧化鉻酸鋅鉀	ND
	Pentazinc Chromate Octahydroxide / 鋅黃(C.I.顏料黃 36)	ND
--	**Cobalt derivatives / 鈷衍生物**	
	Cobalt(II) / Sulphate 硫酸鈷(II)	ND
	Cobalt(II) / Dinitrate 硝酸鈷(II)	ND
	Cobalt(II) / Carbonate 碳酸鈷(II)	ND
	Cobalt(II) / Diacetate 醋酸鈷(II)	ND
--	2-Ethoxyethyl Acetate (2-EEA) / 乙酸-2-乙氧基乙酯	ND
--	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) / 鄰苯二甲酸二(C7-11支鏈與直鏈)烷基酯	ND
--	Hydrazine / 肼	ND
--	1-Methyl-2-pyrrolidone / N-甲基吡咯烷酮	ND
--	1,2,3-Trichloropropane / 1,2,3-三氯丙烷	ND
--	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) / 鄰苯二甲酸二(C6-8支鏈與直鏈)烷基酯，富C7	ND
--	**Specific Arsenic Acid / 特定砷酸類**	
	Arsenic Acid / 砷酸	ND
	Calcium Arsenate / 砷酸鈣	ND
	Trilead Diarsenate / 砷酸鉛	ND
--	Lead Diazide; Lead Azide / 疊氮化鉛	ND
--	Lead Styphnate / 收斂酸鉛	ND
--	Lead Dipicrate / 苦味酸鉛	ND
--	Formaldehyde, oligomeric reaction products with aniline (technical MDA) / 甲醛和苯胺聚合物	ND
--	Bis(2-methoxyethyl) phthalate (DMEP) / 鄰苯二甲酸二甲氧乙酯	ND
--	2-Methoxyaniline / 鄰甲氧基苯胺	ND
--	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol) / 對特辛基苯酚	ND

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Test Conducted

(Ⅰ) Test Result Summary 測試結果:

Reporting Substances 需註明物質

編號 NO.	Test Item 測試項目	Result 結果 (ppm)
		Semitransparent plastic sheet
--	2,2'-dichloro-4,4'-methylenedianiline (MOCA) / 4,4'-二氨基-3,3'-二氯二苯甲烷	ND
--	Phenolphthalein / 酚酞	ND
--	1,2-Dichloroethane / 1,2-二氯乙烷	ND
--	Bis(2-methoxyethyl) ether / 二甘醇二甲醚	ND
--	N,N-dimethylacetamide (DMAC) / N,N-二甲基乙酰胺	ND

Remarks: ppm = Parts per million based on weight of tested sample
備註 = 百萬分之一，依據測試樣品重量計算
ND = Not detected = 未檢測出

Responsibility of chemist 分析人員 : Irene Chiou / Kevin Liu / Cathy Chen

Date Sample Received 樣品收件日期 : Dec 09, 2011
Test Period 樣品測試期間 : Dec 12, 2011 to Jan 02, 2012

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Test Conducted

(Ⅱ) Test Method 測試方法:

Test Item 測試項目	Test Method 測試方法	MDL 方法偵測極限
Cadmium (Cd) Content 鎘含量	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES. 參考IEC 62321, 2008年第一版第8/9/10章, 以微波消化法測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Lead (Pb) Content 鉛含量	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES. 參考IEC 62321, 2008年第一版第8/9/10章, 以微波消化法測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Mercury (Hg) Content 汞含量	With reference to IEC 62321 edition 1.0:2008 in clause 7, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES. 參考IEC 62321, 2008年第一版第7章, 以微波消化法測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Chromium VI (Cr^{6+}) Content 六價鉻含量	With reference to IEC 62321 edition 1.0:2008 in annex C, by alkaline digestion and determined by UV-Vis spectrophotometer. 參考IEC 62321, 2008年第一版附錄C, 以鹼液消化並用紫外光-可見光分光光度計分析。	1 ppm
Polybrominated Biphenyls (PBBs) 多溴聯苯	With reference to IEC 62321 edition 1.0:2008 in annex A, by solvent extraction and determined by GC-MSD and further HPLC confirmation when necessary 參考IEC 62321, 2008年第一版附錄A, 以溶劑萃取並用氣相層析質譜儀分析, 必要時會以高效能液相層析-二極體陣列偵檢器進行確認。	5 ppm
Polybrominated Diphenyl Ethers (PBDEs) 多溴聯苯醚	With reference to IEC 62321 edition 1.0:2008 in annex A, by solvent extraction and determined by GC-MSD and further HPLC confirmation when necessary 參考IEC 62321, 2008年第一版附錄A, 以溶劑萃取並用氣相層析質譜儀分析, 必要時會以高效能液相層析-二極體陣列偵檢器進行確認。	5 ppm

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Test Conducted

(Ⅱ) Test Method 測試方法:

Test Item 測試項目	Test Method 測試方法	MDL 方法偵測極限
Halogen Content 鹵素含量	With reference to EN 14582:2007 by combustion flask with oxygen and determined by ion chromatography 參考EN 14582:2007，以氧氣燃燒瓶燃燒集氣法並用離子層析儀分析。	50 ppm
Short Chain Chlorinated Paraffins (C10~C13) 短鏈氯化石蠟	With reference to USEPA 3540C, by solvent extraction and determined by GC-ECD or GC-MSD 參考USEPA 3540C，以溶劑萃取並用氣相層析-電子捕捉偵測器或氣相層析-質譜儀分析。	10 ppm
Polychlorinated Biphenyls (PCBs) 多氯聯苯	With reference to USEPA 3540C / 8082A, by solvent extraction and determined by GC-ECD or GC-MSD 參考USEPA 3540C / 8082A，以溶劑萃取並用氣相層析-電子捕捉偵測器或氣相層析-質譜儀分析。	1 ppm
Polychlorinated Terphenyls (PCTs) 多氯三聯苯	With reference to USEPA 3540C, by solvent extraction and determined by GC-ECD or GC-MSD 參考USEPA 3540C，以溶劑萃取並用氣相層析-電子捕捉偵測器或氣相層析-質譜儀分析。	10 ppm
Polychlorinated Phenols (PCPs) 多氯酚	With reference to ISO 17070, by solvent extraction and determined by GC-ECD or GC-MSD 參考ISO 17070，以溶劑萃取並用氣相層析-電子捕捉偵測器或或氣相層析-質譜儀分析。	1 ppm
Polychlorinated Naphthalenes (PCNs) 多氯化萘	With reference to USEPA 3540C / 8081B, by solvent extraction and determined by GC-ECD or GC-MSD 參考USEPA 3540C / 8081B，以溶劑萃取並用氣相層析-電子捕捉偵測器或氣相層析-質譜儀分析。	10 ppm
Mirex (Perchlordecone) 滅蟻靈	With reference to USEPA 3540C / 8081B, by solvent extraction and determined by GC-ECD or GC-MSD 參考USEPA 3540C / 8081B，以溶劑萃取並用氣相層析-電子捕捉偵測器或氣相層析-質譜儀分析。	10 ppm
Pesticides 農藥	With reference to USEPA 8081 / 8151A, by solvent extraction and determined by GC-ECD and GC-MSD 參考USEPA 8081 / 8151A，以溶劑萃取並用氣相層析-電子捕捉偵測器及氣相層析-質譜儀分析。	0.1 ppm
Dioxins 戴奧辛	With reference to USEPA 1613, by solvent extraction and determined by GC-MSD 參考USEPA 1613，以溶劑萃取並用氣相層析-質譜儀分析。	See Appendix 1

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(Ⅱ) Test Method 測試方法:

Test Item 測試項目	Test Method 測試方法	MDL 方法偵測極限
Halogenated Dibenzofurans 鹵化二苯呋喃	With reference to USEPA 1613, by solvent extraction and determined by GC-MSD 參考USEPA 1613，以溶劑萃取並用氣相層析-質譜儀分析。	See Appendix 1
Polyvinyl Chloride (PVC) 聚氯乙烯和聚氯乙烯混合物	Beilstein's test (Flame Test) and FT-IR analysis 火焰法及傅立葉轉換紅外線吸收光譜儀檢測。	NA
Ozone Depleting Chemical (ODS) 臭氧危害物質	With reference to USEPA 5021AA / 8260C and determined by GC-MSD linked with headspace 參考USEPA 5021AA / 8260C，以氣相層析-質譜儀連接頂空進樣器分析。	1 ppm
Ozone Depleting Chemical Subsititutes 臭氧危害物質替代物	With reference to USEPA 5021AA / 8260C and determined by GC-MSD linked with headspace 參考USEPA 5021AA / 8260C，以氣相層析-質譜儀連接頂空進樣器分析。	1 ppm
Aliphatic CHCs 脂肪族氯碳氫化合物	With reference to USEPA 5021AA / 8260C and determined by GC-MSD linked with headspace 參考USEPA 5021AA / 8260C，以氣相層析-質譜儀連接頂空進樣器分析。	1 ppm
Tetrabromobisphenol-A-Bis (2,3-Dibromopropylether) (TBBP-A-Bis) 四溴雙酚-A-雙(2,3-二溴丙醚)	With reference to USEPA 3540C, by solvent extraction and determined by HPLC-DAD or GC-MSD 參考USEPA 3540C，以溶劑萃取並用高效能液相層析儀-二極體陣列偵檢器或氣相層析-質譜儀分析。	20 ppm
Tetrabromobisphenol A (TBBPA) 四溴雙酚-A	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD 參考USEPA 3540C，以溶劑萃取並用氣相層析-質譜儀分析。	20 ppm
Hexabromocyclododecane (HBCDD) 六溴環十二烷	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD 參考USEPA 3540C，以溶劑萃取並用氣相層析-質譜儀分析。	10 ppm
Hexabromobenzene 六溴苯	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD 參考USEPA 3540C，以溶劑萃取並用氣相層析-質譜儀分析。	10 ppm
Tris-(2,3-Dibromopropyl)Phosphate 磷酸三(2,3-二溴丙基)酯	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD 參考USEPA 3540C，以溶劑萃取並用氣相層析-質譜儀分析。	5 ppm
Polycyclic Aromatic Hydrocarbons (PAHs) 多環芳香族化合物	With reference to the document ZEK 01.4-08 issued by the central experience exchange office (ZEK), by solvent extraction and determined by GC-MS. 參考由ZEK發行的文件ZEK-01.4-08，以溶劑萃取並以氣相層析質譜儀分析	0.2 ppm

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(Ⅱ) Test Method 測試方法:

Test Item 測試項目	Test Method 測試方法	MDL 方法偵測極限
Medium Chain Chlorinated Paraffins (C14~C17) 中鏈氯化石蠟	With reference to USEPA 3540C, by solvent extraction and determined by GC-ECD or GC-MSD 參考USEPA 3540C，以溶劑萃取並用氣相層析-電子捕捉偵測器或氣相層析-質譜儀分析。	10 ppm
Hexachlorobuta-1,3-Diene 六氯丁二烯	With reference to USEPA 5021AA / 8260C and determined by GC-MSD linked with headspace 參考USEPA 5021AA / 8260C，以氣相層析-質譜儀連接頂空進樣器分析。	1 ppm
Beryllium (Be) Content 鈹含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Nickel (Ni) Content 鎳含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Triclosan 三氯沙	By solvent extraction and determined by HPLC-DAD or GC-MSD 以溶劑萃取並用高效能液相層析儀-二極體陣列偵檢器或氣相層析-質譜儀分析。	25 ppm
Antimony (Sb) Content 銻含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Arsenic (As) Content 砷含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Asbestos 石綿	FT-IR analysis 傅立葉轉換紅外線吸收光譜儀檢測。	NA
Azo Dyes Compounds (Specific Amine) 偶氮化合物	With reference to EN 14362-1:2003 and determined by GC-MSD 參考EN 14362-1:2003，以氣相層析-質譜儀分析。	5 ppm
Formaldehyde 甲醛	With reference to ISO 17226-1 and determined by HPLC-DAD 參考ISO 17226-1，並用高效能液相層析儀-二極體光譜偵檢器分析。	5 ppm

Intertek Testing Services Taiwan Ltd.
8F., No. 423, Ruiguang Rd., Neihu District, Taipei 114, Taiwan, R.O.C.
全國公證檢驗股份有限公司
114 台北市內湖區瑞光路 423 號 8 樓
Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

Test Conducted

(Ⅱ) Test Method 測試方法:

Test Item 測試項目	Test Method 測試方法	MDL 方法偵測極限
N-p-phenylenediamine 苯二胺類化合物	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析。	5 ppm
2,4,6-Tri-Tert-Butylphenol 2,4,6-三叔丁基苯酚	With reference to ASTM D4275-96, by solvent extraction and determined by GC-MSD 參考ASTM D4275-96，以溶劑萃取並用氣相層析-質譜儀分析。	10 ppm
Ethylene Glycol Monomethyl Ether And Its Acetate 乙二醇甲醚及其酯化物	With reference to OSHA method #53 and determined by GC-MSD 參考OSHA method #53，以氣相層析-質譜儀分析。	10 ppm
Ethylene Glycol Monoethyl Ether And Its Acetate 乙二醇乙醚及其酯化物	With reference to OSHA method #53 and determined by GC-MSD 參考OSHA method #53，以氣相層析-質譜儀分析。	10 ppm
Radioactive Substances 放射性物質	X-Ray And Gamma Radiation Dosimeter. 以X-Ray 與Gamma計量器分析	See Appendix 2
Bisphenol-A 雙酚-A	By solvent extraction and determined by LC-MS-MS. 以溶劑萃取並用液相層析串聯質譜儀分析。	0.5 ppm
Phthalates 鄰苯二甲酸酯	With reference to EN 14372: 2004, by solvent extraction and determined by GC-MSD 參考EN 14372: 2004，以溶劑萃取測試樣品並用氣相層析-質譜儀分析。	50 ppm
Hexachlorocyclohexane (HCH) 六氯環己烷	With reference to USEPA 5021AA / 8260C and determined by GC-MSD linked with headspace 參考USEPA 5021AA / 8260C，以氣相層析-質譜儀連接頂空進樣器分析。	1 ppm
Alkylphenols 烷基酚	By solvent extraction and determined by LC-MSD 以溶劑萃取並用液相層析-質譜儀分析。	10 ppm
Alkylphenol Ethoxylates 烷基酚聚乙氧基醇類	By solvent extraction and determined by LC-MS-MS 以溶劑萃取並用液相層析串聯質譜儀。	10 ppm
Perfluorooctane Sulfonates (PFOS) 全氟辛磺酸	With reference to CEN/TS 15968_2010, by solvent extraction and determined by LC-MS-MS 參考CEN/TS 15968_2010，以溶劑萃取並用液相層析串聯式質譜儀分析。	10 ppm
Perfluorooctanoic Acid (PFOA) 全氟辛酸	With reference to CEN/TS 15968_2010, by solvent extraction and determined by LC-MS-MS 參考CEN/TS 15968_2010，以溶劑萃取並用液相層析串聯式質譜儀分析。	10 ppm

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(Ⅱ) Test Method 測試方法:

Test Item 測試項目	Test Method 測試方法	MDL 方法偵測極限
Synthetic Musks 合成麝香	With reference to USEPA 3540C / 8270D, by solvent extraction and determined by GC-MSD 參考USEPA 3540C / 8270D，以溶劑萃取並用氣相層析-質譜儀分析。	5 ppm
Cobalt Dichloride (As Cobalt) 二氯化鈷(以鈷計)	Screening test By ICP-OES. 以ICP-OES進行篩選測試	100 ppm
Specific Benzotriazole 特定苯并三氮唑	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD 參考USEPA 3540C，以溶劑萃取並用氣相層析-質譜儀分析。	10 ppm
Surfactants 界面活性劑	With reference to USEPA 3550C, by solvent extraction and determined by LC-MS-MS 參考USEPA 3550C，以溶劑萃取並用液相層析串聯質譜儀分析。	2 ppm
Organotin Compounds 有機錫化合物	With reference to ISO 17353:2004, by solvent extraction and determined by GC-MSD 參考ISO 17353:2004，以溶劑萃取並用氣相層析-質譜儀分析。	0.03 ppm
Sulfur Hexafluoride (SF_6) 六氟化硫	With reference to USEPA 5021AA / 8260C and determined by GC-MSD linked with headspace 參考USEPA 5021AA / 8260C，以氣相層析-質譜儀連接頂空進樣器分析。	1 ppm
Dimethylfurmarate (DMFu) 富馬酸二甲酯	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析。	0.1 ppm
Selenium (Se) Content 硒含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Halogenated Diphenyl Methanes 鹵化二苯基甲烷	With reference to USEPA 3540C / 8082A, by solvent extraction and determined by GC-ECD or GC-MSD 參考USEPA 3540C / 8082A，以溶劑萃取並用氣相層析-電子捕捉偵測器或氣相層析-質譜儀分析。	10 ppm
Cyclododecane 環十二烷	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD 參考USEPA 3540C，以溶劑萃取並用氣相層析-質譜儀分析。	10 ppm
Triphenyl Phosphate (TPP) 磷酸三苯酯	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD 參考USEPA 3540C，以溶劑萃取並用氣相層析-質譜儀分析。	10 ppm

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(Ⅱ) Test Method 測試方法:

Test Item 測試項目	Test Method 測試方法	MDL 方法偵測極限
Expandable polystyrene (EPS) 發泡聚苯乙烯	FT-IR analysis 傅立葉轉換紅外線吸收光譜儀檢測。	NA
Barium (Ba) Content 鋇含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Bismuth (Bi) Content 鉍含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Cobalt (Co) Content 鈷含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Copper (Cu) Content 銅含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Cyanides 氰化物	With reference to NIEA W441.50, and determined by UV-VIS spectrophotometer 參考NIEA W441.50方法，並用紫外光-可見光分光光度計分析	0.5 ppm
Gold (Au) Content 金含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Magnesium (Mg) Content 鎂含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Palladium (Pd) Content 鈀含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm

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Test Conducted

(Ⅱ) Test Method 測試方法:

Test Item 測試項目	Test Method 測試方法	MDL 方法偵測極限
Silver (Ag) Content 銀含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Tellurium (Te) Content 碲含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Thallum (Tl) Content 鉈含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Benzene 苯類	With reference to USEPA 5021AA / USEPA 8260C and determined by GC-MSD linked with headspace 參考USEPA 5021AA / 8260C，以氣相層析-質譜儀連接頂空進樣器分析。	1 ppm
Chromium (Cr) Content 鉻含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Specific Anthracene Oil 特定蒽油類	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析	100 ppm
Pitch, Coal Tar, High Temp. 煤瀝青, 高溫	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析	100 ppm
Acrylamide 丙烯醯胺	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析	100 ppm
Specific Aluminosilicate, Refractory Ceramic Fibres 特定矽酸鋁耐火陶瓷纖維	Screening test By ED-XRF, SEM-EDX, IC and ICP-OES 以ED-XRF, SEM-EDX, IC 及 ICP-OES進行篩選測試	100 ppm
Specific Lead chromate 特定鉻酸鉛類	Screening test By ICP-OES and UV-Vis. 以ICP-OES及UV-Vis 進行篩選測試	100 ppm

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Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

Test Conducted

(Ⅱ) Test Method 測試方法:

Test Item 測試項目	Test Method 測試方法	MDL 方法偵測極限
Gallium (Ga) Content 鎵含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Boric acid and derivatives 硼酸及其衍生物	Screening test By ICP-OES. 以ICP-OES進行篩選測試	100 ppm
Phosphorus Based Flame Retardants 有機磷阻燃劑	With reference to USEPA 3540C, by solvent extraction and determined by GC-MS. 參考USEPA 3540C，以溶劑萃取並用氣相層析質譜儀分析。	10 ppm
Zinc (Zn) Content 鋅含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
BORON (B) Content 硼含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Indium (In) Content 銦含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Manganese (Mn) Content 錳含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Molbdenum (Mo) Content 鉬含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Vanadium (V) Content 釩含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm

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Test Conducted

(Ⅱ) Test Method 測試方法:

Test Item 測試項目	Test Method 測試方法	MDL 方法偵測極限
Palladium (Pa) Content 鈀含量	With reference to USEPA 3052, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES 參考USEPA 3052，以微波消化法消化測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Hexachlorobuta-1,3-diene 六氯丁二烯	With reference to USEPA 8081 / 8151A, by solvent extraction and determined by GC-ECD and GC-MS. 參考USEPA 8081 / 8151A，以溶劑萃取並用氣相層析電子捕獲偵測儀及氣相層析質譜儀分析。	0.1 ppm
Ethy acetate (EA) 乙酸乙酯	With reference to USEPA 5021A / USEPA 8260C and determined by GC-MSD linked with headspace 參考USEPA 5021A / 8260C，以氣相層析-質譜儀連接頂空進樣器分析。	1 ppm
Chromium VI Compound 六價鉻化合物	Screening test By ICP-OES and UV-Vis. 以ICP-OES及UV-Vis 進行篩選測試	100 ppm
Cobalt derivatives 鈷衍生物	Screening test By ICP-OES. 以ICP-OES進行篩選測試	100 ppm
2-Ethoxyethyl Acetate (2-EEA) 乙酸-2-乙氧基乙酯	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析	100 ppm
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) 鄰苯二甲酸二(C7-11支鏈與直鏈)烷基酯	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析	100 ppm
Hydrazine 肼	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析	100 ppm
1-Methyl-2-pyrrolidone N-甲基吡咯烷酮	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析	100 ppm
1,2,3-Trichloropropane 1,2,3-三氯丙烷	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析	100 ppm
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) 鄰苯二甲酸二(C6-8支鏈與直鏈)烷基酯，富C7	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析	100 ppm
Specific Arsenic Acid 特定砷酸類	Screening test By ICP-OES. 以ICP-OES進行篩選測試	100 ppm

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(Ⅱ) Test Method 測試方法:

Test Item 測試項目	Test Method 測試方法	MDL 方法偵測極限
Lead Diazide; Lead Azide 疊氮化鉛	Screening test By ICP-OES. 以ICP-OES進行篩選測試	100 ppm
Lead Styphnate 收斂酸鉛	Screening test By ICP-OES. 以ICP-OES進行篩選測試	100 ppm
Lead Dipicrate 苦味酸鉛	Screening test By ICP-OES. 以ICP-OES進行篩選測試	100 ppm
Formaldehyde, oligomeric reaction products with aniline (technical MDA) 甲醛和苯胺聚合物	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析	100 ppm
Bis(2-methoxyethyl) phthalate (DMEP) 鄰苯二甲酸二甲氧乙酯	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析	100 ppm
2-Methoxyaniline 鄰甲氧基苯胺	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析	100 ppm
4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol) 對特辛基苯酚	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析	100 ppm
2,2'-dichloro-4,4'-methylenedianiline (MOCA) 4,4'-二氨基-3,3'-二氯二苯甲烷	By solvent extraction and determined by GC-MSD 以溶劑萃取並用氣相層析-質譜儀分析	100 ppm
Phenolphthalein 酚酞	By solvent extraction and determined by HPLC-DAD 以溶劑萃取並用高效液相層析光二極體陣列偵測儀分析	100 ppm
1,2-Dichloroethane 1,2-二氯乙烷	By solvent extraction and determined by GC-MS linked with Headspace 以溶劑萃取並用氣相層析質譜儀連接頂空進樣器分析	100 ppm
Bis(2-methoxyethyl) ether 二甘醇二甲醚	By solvent extraction and determined by GC-MS linked with Headspace 以溶劑萃取並用氣相層析質譜儀連接頂空進樣器分析	100 ppm
N,N-dimethylacetamide (DMAC) N,N-二甲基乙酰胺	By solvent extraction and determined by GC-MS linked with Headspace 以溶劑萃取並用氣相層析質譜儀連接頂空進樣器分析	100 ppm

Remarks: NA = Not applicable = 不適用
備註 MDL = quantitation limit of test method = 方法偵測極限

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Number : TWNC00236308

Test Conducted

Appendix 1 附錄一

Chlorinated Dioxins And Furans:

Test Item 測試項目	Result 結果 (pg/g) Semitransparent plastic sheet	I-TEF 國際毒性當量	MDL 方法偵測極限 (pg/g)
2,3,7,8-TeCDF	ND	0.1	0.0076
1,2,3,7,8-PeCDF	ND	0.05	0.0062
2,3,4,7,8-PeCDF	ND	0.5	0.0060
1,2,3,4,7,8-HxCDF	ND	0.1	0.0062
1,2,3,6,7,8-HxCDF	ND	0.1	0.0056
1,2,3,7,8,9-HxCDF	ND	0.1	0.0060
2,3,4,6,7,8-HxCDF	ND	0.1	0.0066
1,2,3,4,6,7,8-HpCDF	ND	0.01	0.0054
1,2,3,4,7,8,9-HpCDF	ND	0.01	0.0070
OCDF	ND	0.001	0.0058
2,3,7,8-TeCDD	ND	1	0.0062
1,2,3,7,8-PeCDD	ND	0.5	0.0155
1,2,3,4,7,8-HxCDD	ND	0.1	0.0074
1,2,3,6,7,8-HxCDD	ND	0.1	0.0044
1,2,3,7,8,9-HxCDD	ND	0.1	0.0070
1,2,3,4,6,7,8-HpCDD	ND	0.01	0.0056
OCDD	ND	0.001	0.0124
PCDDs/PCDFs (pg I-TEQ/g D.W.)	ND	--	--

Brominated Dioxins And Furans:

Test Item 測試項目	Result 結果(pg/g) Semitransparent plastic sheet	MDL 方法偵測極限 (pg/g)
2,3,7,8-TeBDF	ND	0.0135
1,2,3,7,8-PeBDF	ND	0.1173
2,3,4,7,8-PeBDF	ND	0.0920
2,3,7,8-TeBDD	ND	0.0018
1,2,3,7,8-PeBDD	ND	0.4058
1,2,3,4/6,7,8-HxBDD	ND	1.8532
1,2,3,7,8,9-HxBDD	ND	1.5492
Total PBDD/FS	ND	--

Remarks 備註:
pg = Picogram 皮克 = 10^{-12} 公克
ND = Not detected 未檢測出
I-TEF = International Toxicity Equivalency Factor 國際毒性當量因子
TEQ = Toxic Equivalent Quantity of 2,3,7,8-TeCDD
= 相當於 2,3,7,8-TeCDD 的毒性當量
pg I-TEQ/g D.W. = Picogram in Toxic Equivalents Quantity per gram based on Weight of sample
=皮克總毒性當量分之公克, 依據測試樣品乾重計算

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Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2400 · 6602-2401

Number : TWNC00236308

Test Conducted

Appendix 2 附錄 二 — Radioactive Substances 放射性物質

Tested Sample 測試樣品	:	Semitransparent plastic sheet
Tested Result 測試結果	:	Lower Than Background 低於背景值
Instrument 儀器	:	X-Ray And Gamma Radiation Dosimeter
Value Of Background 背景值	:	0.08～0.20 USV/H

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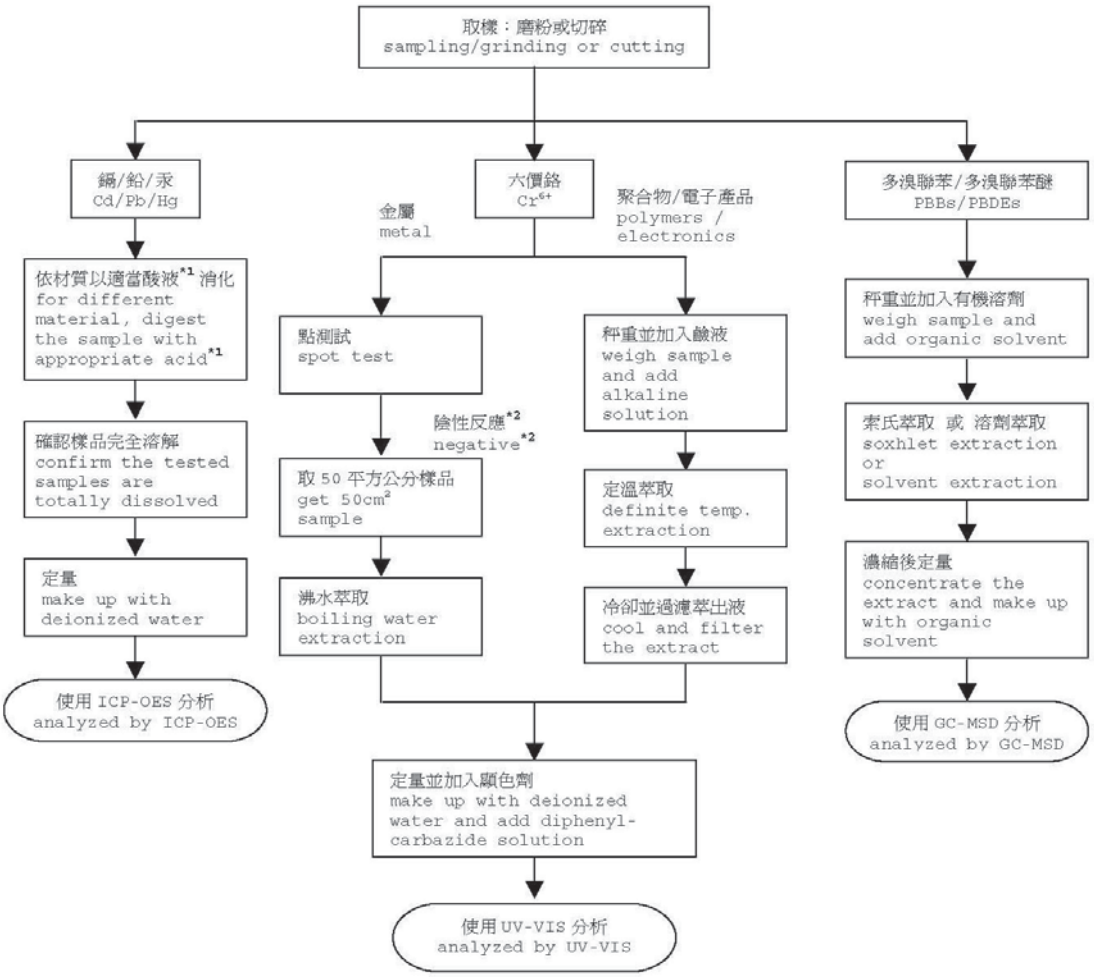
Test Conducted

(Ⅲ) Measurement Flowchart 測試流程圖:

Test For Cd/Pb/Hg/Chromium (VI)/PBBs/PBDEs Contents RoHS六項測試流程圖

Reference Standard 參考方法: IEC 62321 edition 1.0:2008



Remarks 備註:

*1: List Of Appropriate Acid 各材質添加酸液如下表:

Material 樣品材質	Acid Added For Digestion 添加酸液種類
Polymers / 聚合物	HNO_3,HCl,HF,H_2O_2,H_3BO_3 硝酸、鹽酸、氫氟酸、雙氧水、硼酸
Metals / 金屬	HNO_3,HCl,HF 硝酸、鹽酸、氫氟酸
Electronics / 電子產品	HNO_3,HCl,H_2O_2,HBF_4 硝酸、鹽酸、雙氧水、氟硼酸

*2: If the result of spot test is positive, Chromium VI would be determined as detected.
若點測試的結果爲陽性反應，則直接判定爲測試樣品含有六價鉻。

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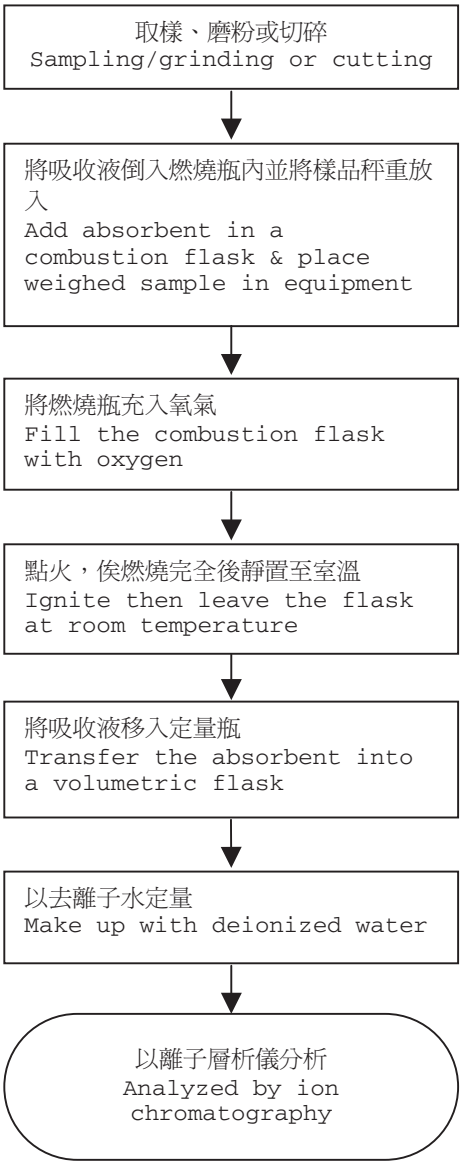
Test Conducted

(Ⅲ) Measurement Flowchart 測試流程圖:

Test For Halogen Content 鹵素測試流程圖
Reference Standard 參考方法：EN 14582



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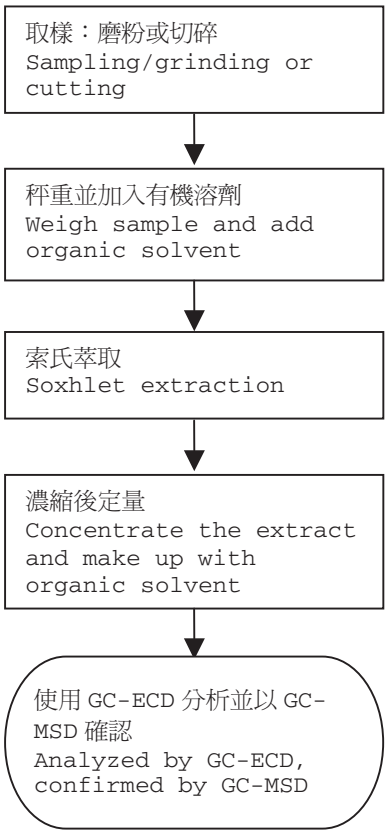
Test Conducted

(Ⅲ) Measurement Flowchart 測試流程圖:

Test For SCCP (C10~C13) Contents 短鏈氯化石蠟測試流程圖
Reference Method 參考方法: USEPA 3540C



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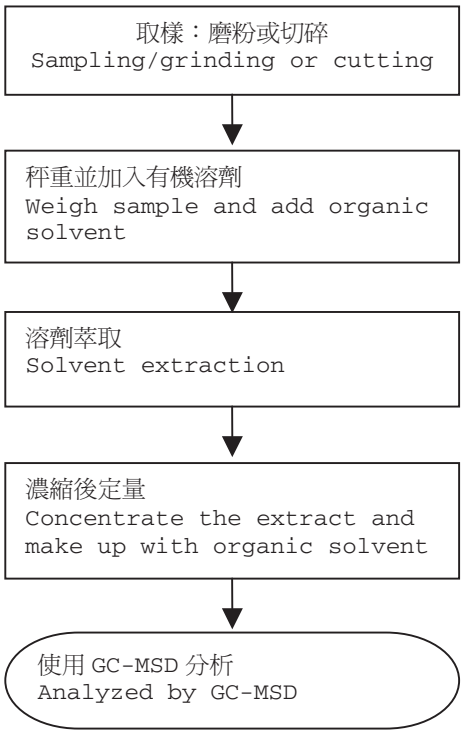
Test Conducted

(Ⅲ) Measurement Flowchart 測試流程圖:

Test For Phthalates Contents 鄰苯二甲酸酯 測試流程圖
Reference Method 參考方法: EN 14372: 2004



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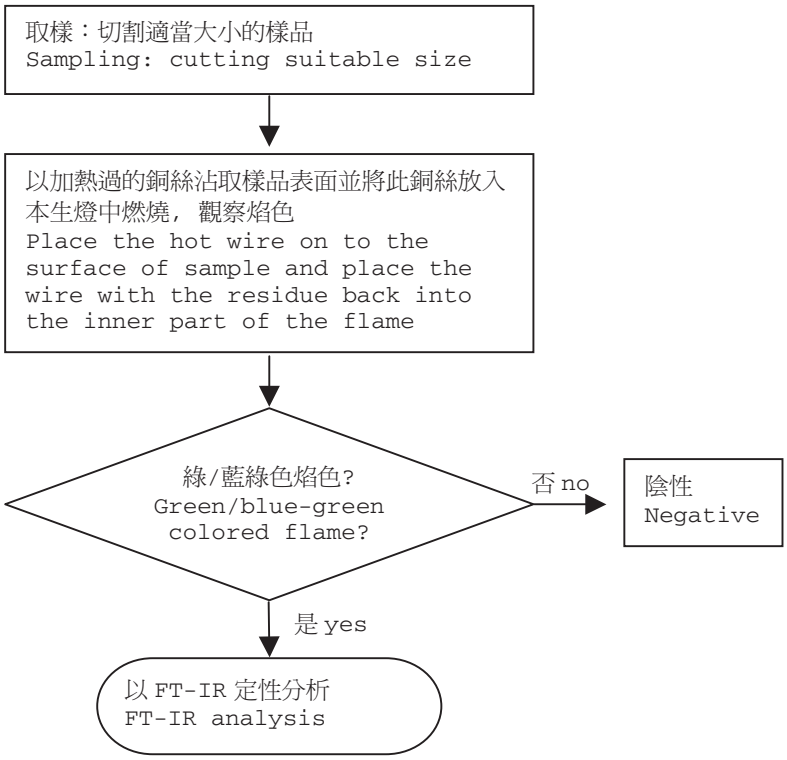
Test Conducted

(Ⅲ) Measurement Flowchart 測試流程圖:

Test For Polyvinyl Chloride (PVC) 聚氯乙烯和聚氯乙烯混合物測試流程圖
Reference Method 參考方法: Beilstein's Test (Flame Test) / FT-IR Analysis



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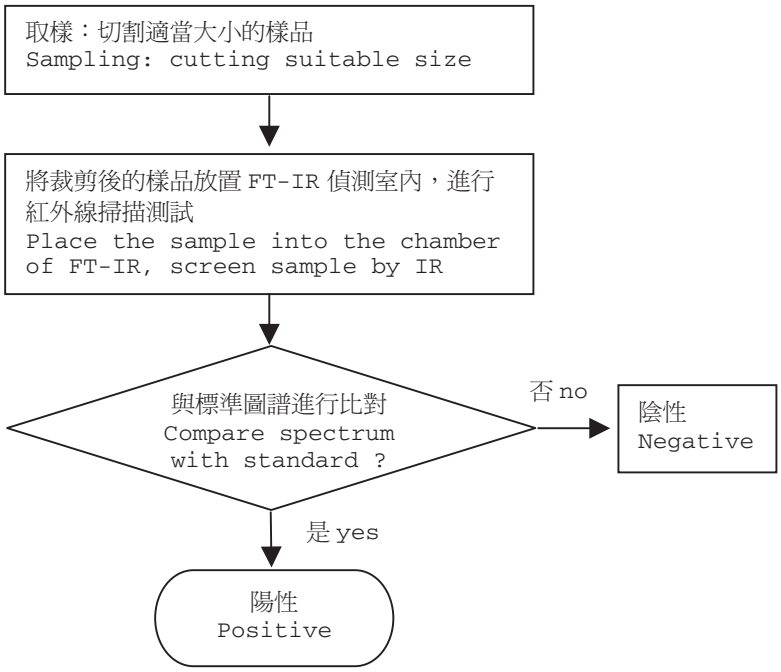
Test Conducted

(Ⅲ) Measurement Flowchart 測試流程圖:

Test For Asbestos 石綿測試流程圖
Reference Method 參考方法: FT-IR Analysis 傅立葉轉換紅外線吸收光譜儀檢測



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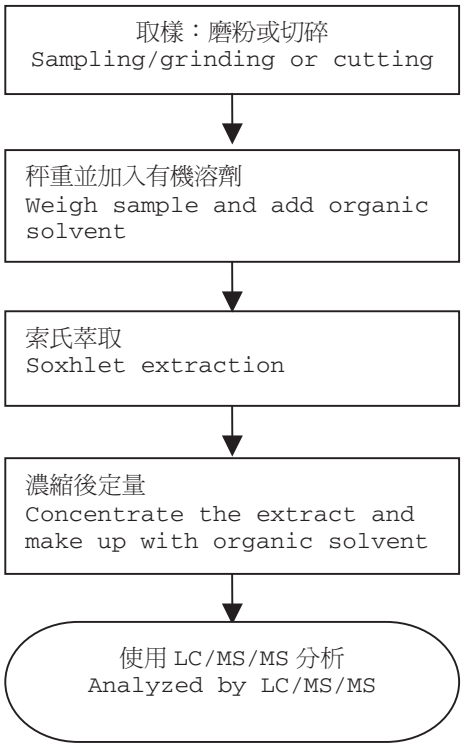
Test Conducted

(Ⅲ) Measurement Flowchart 測試流程圖:

Test For Bisphenol-A Contents 雙酚-A 測試流程圖
Reference Standard 參考方法： 溶劑萃取



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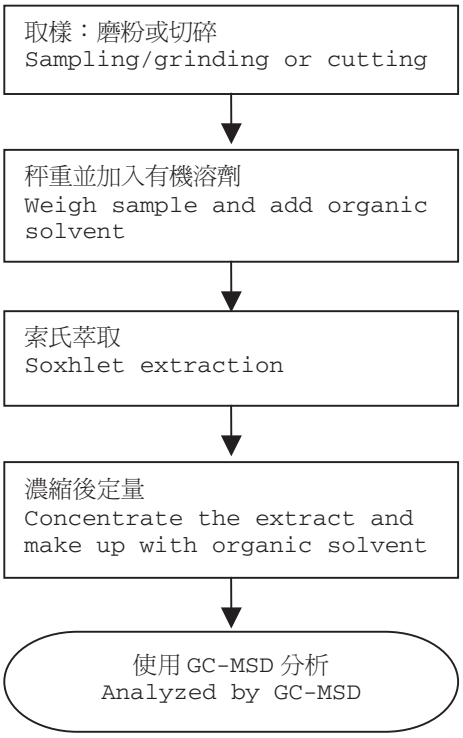
Test Conducted

(Ⅲ) Measurement Flowchart 測試流程圖:

Test For Hexabromocyclododecane (HBCDD) / 六溴環十二烷 測試流程圖
Reference Standard 參考方法：USEPA 3540C



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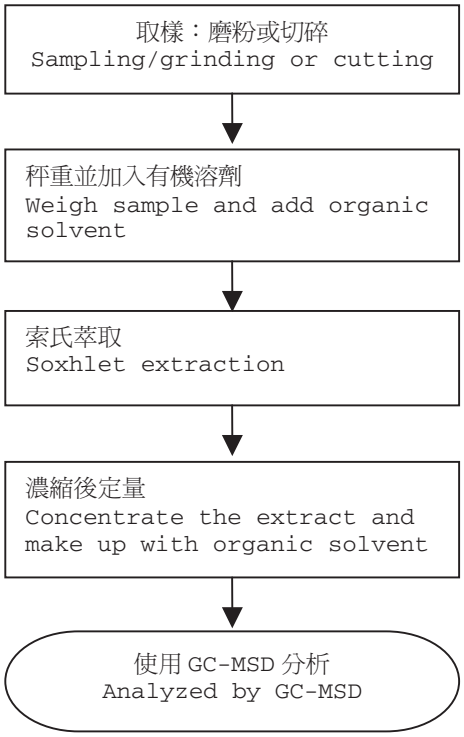
Test Conducted

(Ⅲ) Measurement Flowchart 測試流程圖:

Test For Polycyclic Aromatic Hydrocarbons (PAHS) Contents
多環芳香族化合物測試流程圖
Reference Standard 參考方法：ZEK 01.4-08



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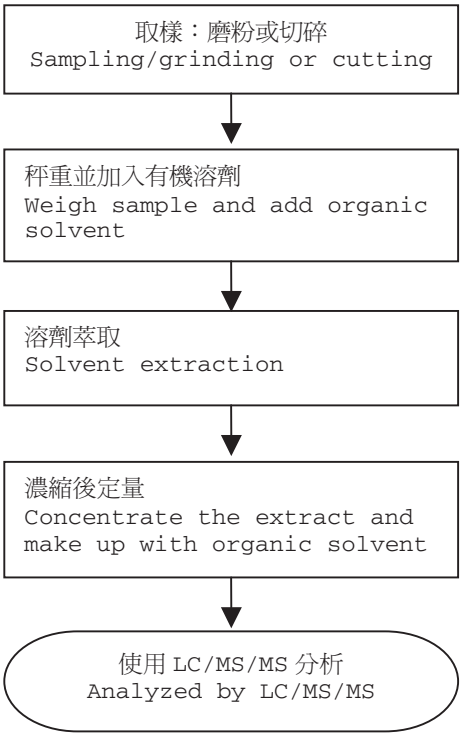
Test Conducted

(Ⅲ) Measurement Flowchart 測試流程圖:

Test For Perfluorooctane Sulfonates (PFOS) / Perfluorooctanoic Acid (PFOA)
Contents 全氟辛磺酸 /全氟辛酸測試流程圖
Reference Method 參考方法: CEN/TS 15968_2010



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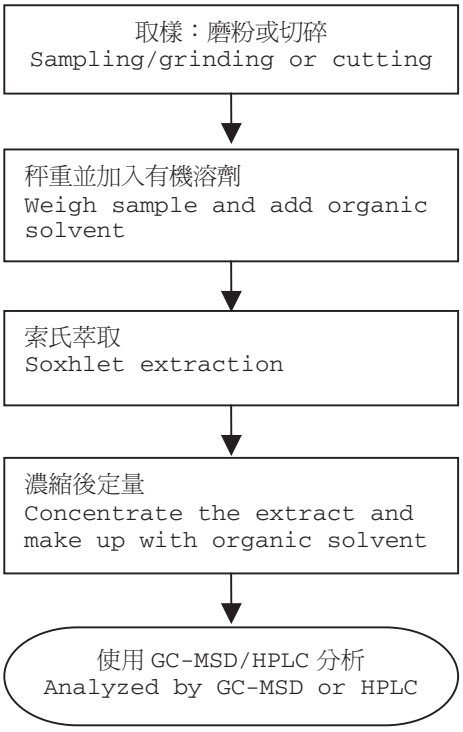
Test Conducted

(Ⅲ) Measurement Flowchart 測試流程圖:

Test For Tetrabromobisphenol-A-Bis(2,3-Dibromopropylether) (TBBP-A-BIS) Contents
四溴雙酚-A-雙(2,3-二溴丙醚)測試流程圖
Reference Standard 參考方法：USEPA 3540C



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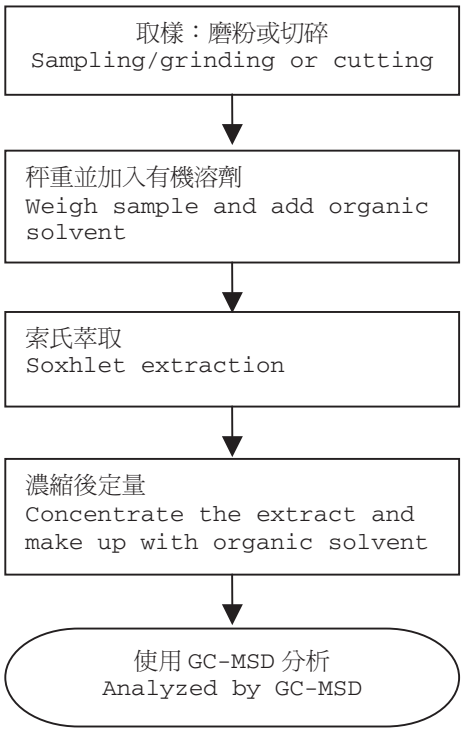
Test Conducted

(Ⅲ) Measurement Flowchart 測試流程圖:

Test For TBBPA Contents 四溴雙酚-A 測試流程圖
Reference Standard 參考方法：USEPA 3540C



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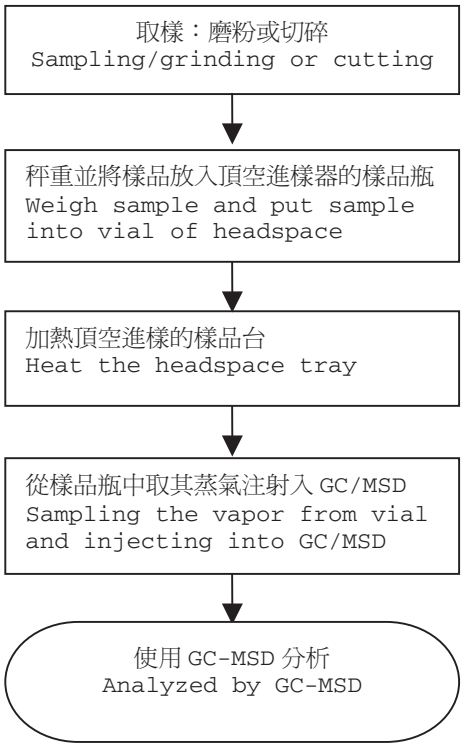
Test Conducted

(Ⅲ) Measurement Flowchart 測試流程圖:

Test For Volatile Organic Solvent Contents 揮發性有機溶劑測試流程圖
Reference Standard 參考方法：USEPA 5021A / USEPA 8260C



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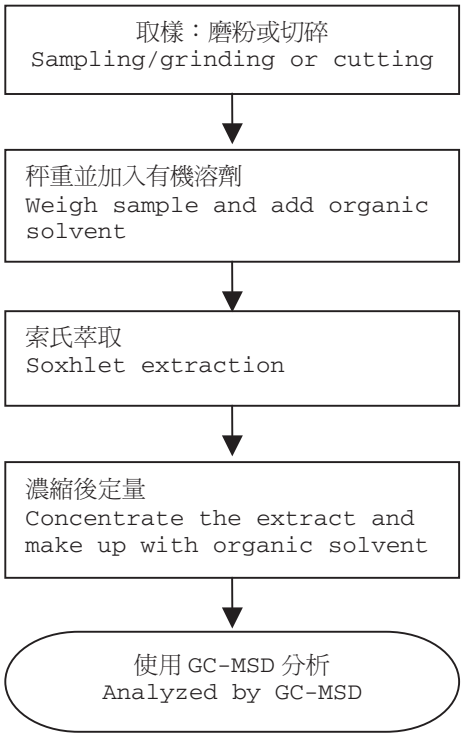
Test Conducted

(Ⅲ) Measurement Flowchart 測試流程圖:

Test For UV Absorbent / UV 吸收劑測試流程圖
Reference Standard 參考方法：USEPA 3540C



End of Report

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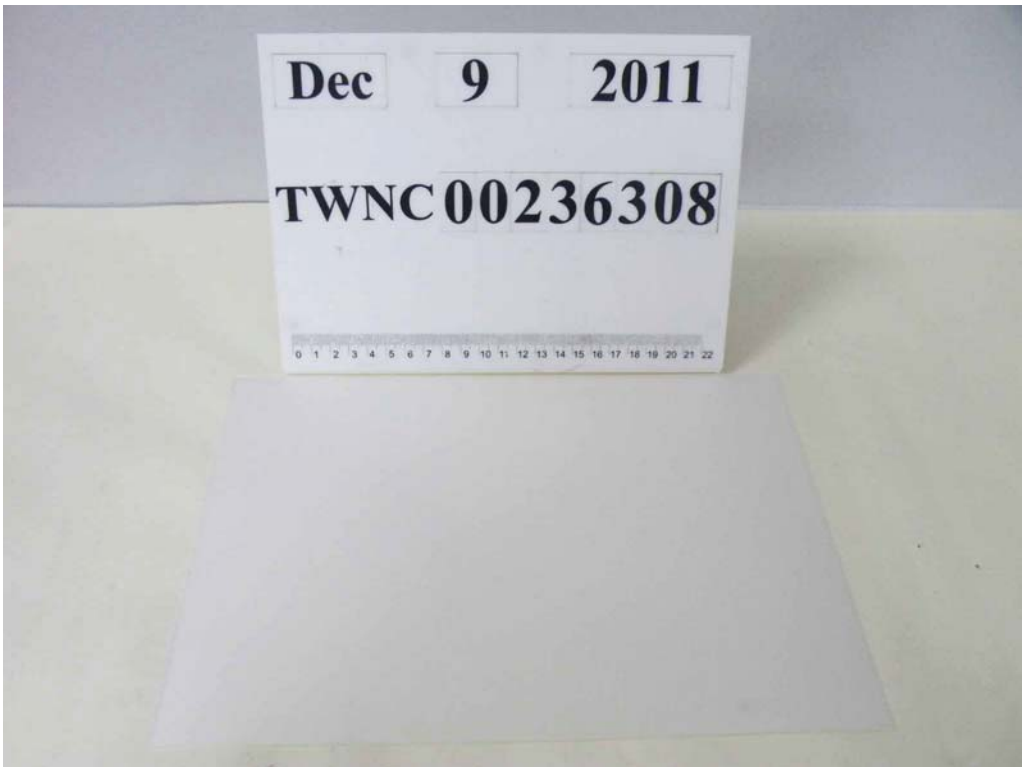
Number : TWNC00236308

Test Conducted

Photo



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Test Report

No.: CANEC23008562801 **Date:** Aug 28, 2023

Client Name: 3M MATERIAL TECHNOLOGY (GUANGZHOU) CO.,LTD.

Client Address: NO.9,NANXIANG 2 ROAD,SCIENCE CITY GUANGZHOU HIGH TECH INDUSTRY DEVELOPMENT DISTRICT

Sample Name: 467MP

Model No.: 467MP

Client Ref. Information: 467MC, 468MC, 468MP, 9492MP, 467MPF, 467MPR, 468MPF, 468MPR, 7952MP, 7955MP, 7962MP, 7965MP, 9172MP, 9172PT, 9185MP, 9188, 9667MP, 9668MP, 9676, 7953MP, 7945MP, 7956MP, 7993MP, 7995MP, 7997MP, 7957MP, 7959MP, 7961MP, 9045MP, 9056MP, 9057MP, 9059MP, 9061MP, 9492MPF, 9495MP, 9495MPF, 9495FL, CDB610

The above sample(s) and information were provided by the client.

SGS Job No.: GZP23-011239

Sample Receiving Date: Aug 22, 2023

Testing Period: Aug 22, 2023 ~ Aug 28, 2023

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
Halogen	See Results

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jessie-JX Li
Approved Signatory

scan to see the report
D902603D

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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 sgs.china@sgs.com

Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN23-0085628-0001.C001	Colorless transparent double-side adhesive sheet

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A1
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	178
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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检验检测专用章 Inspection & Testing Services

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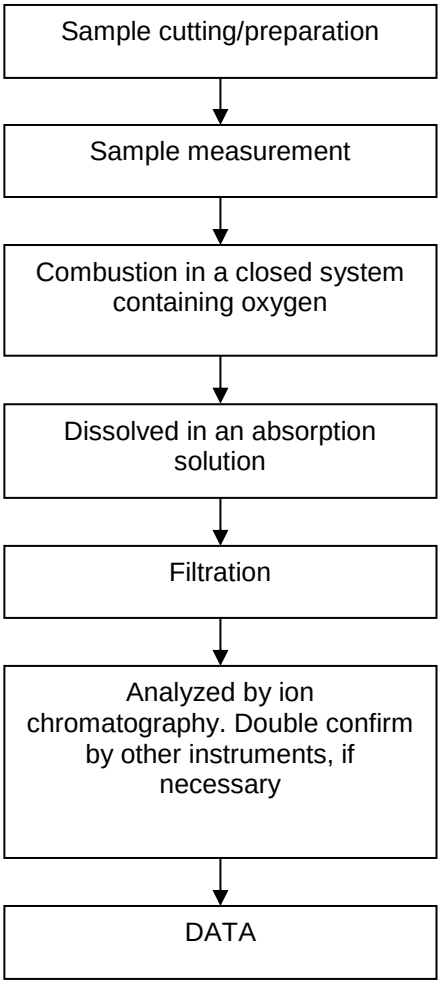
Halogen Testing Flow Chart



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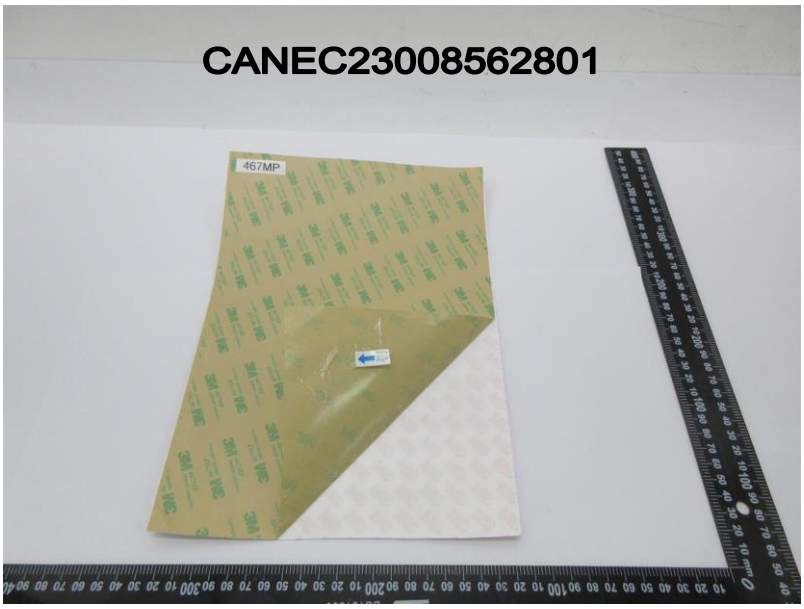

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Test Report

No.: SHAEC23009060001 **Date:** Jul 04, 2023

Client Name: 3M CHINA LIMITED

Client Address: 222 TIANLIN ROAD, SHANGHAI

Sample Name: 3M 468MP

Model No.: 3M 468MP

Client Ref. Information: 3M 467MP, 3M 467MC, 3M 468MC, 3M 467MPF, 3M 468MPF

The above sample(s) and information were provided by the client.

SGS Job No.: SHP23-006029

Sample Receiving Date: Jun 28, 2023

Testing Period: Jun 28, 2023 ~ Jul 04, 2023

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Annie Liu

Annie Liu
Approved Signatory

scan to see the report
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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA23-0090600-0001.C001	Colorless transparent adhesive tape

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Cadmium(Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND

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Test Item(s)	Limit	Unit(s)	MDL	A1
Bis-(2-ethylhexyl) Phthalate(DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	1000	mg/kg	50	ND

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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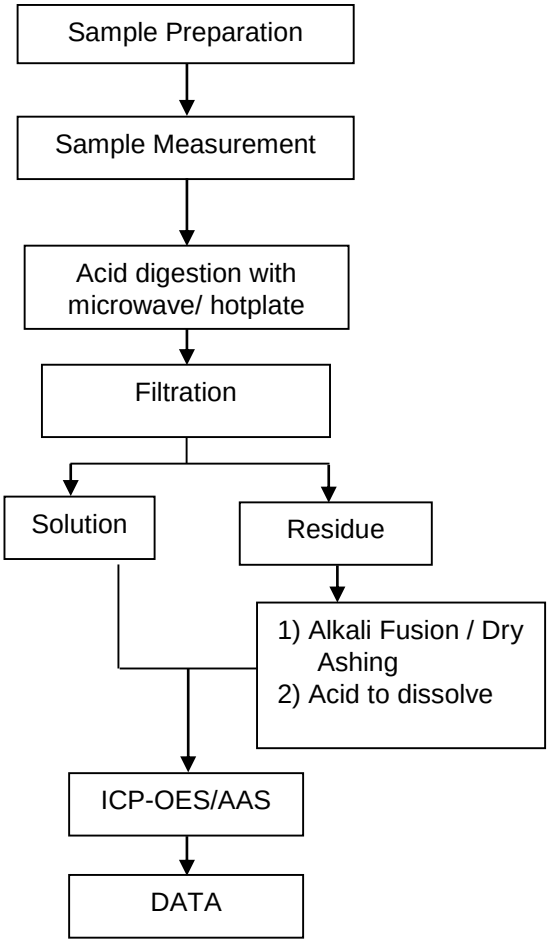
Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



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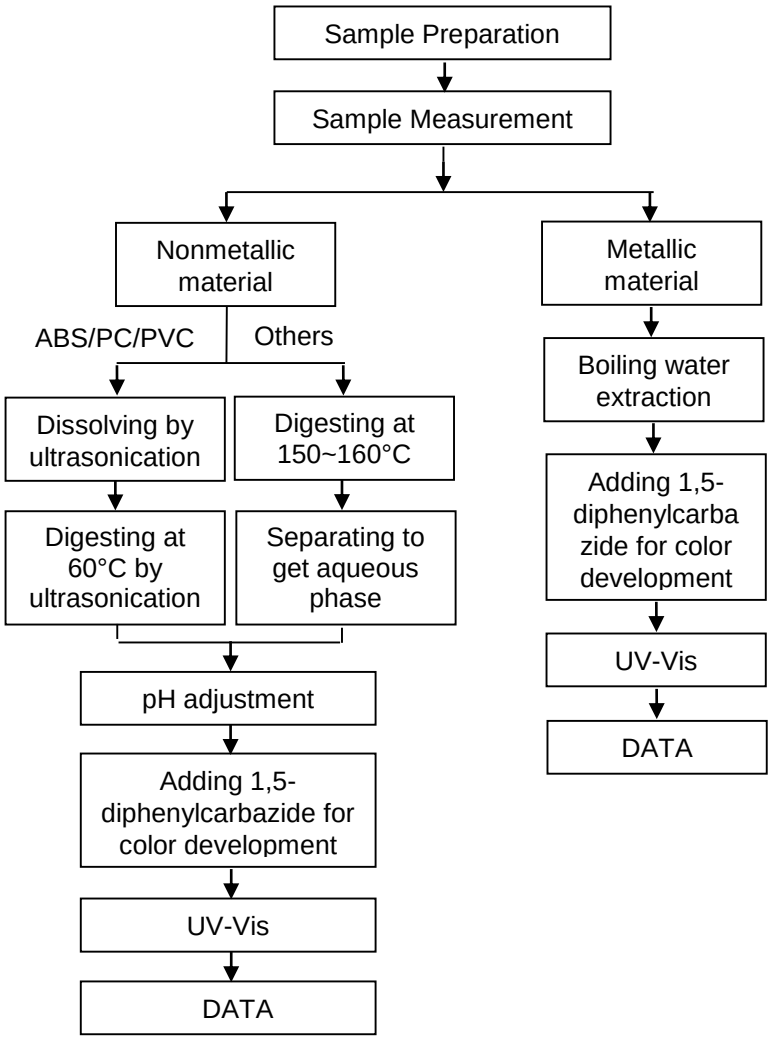
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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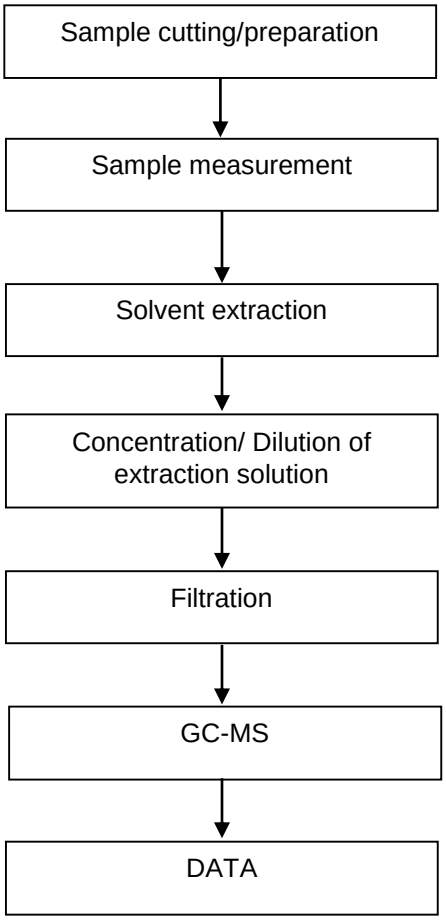
PBBs/PBDEs Testing Flow Chart



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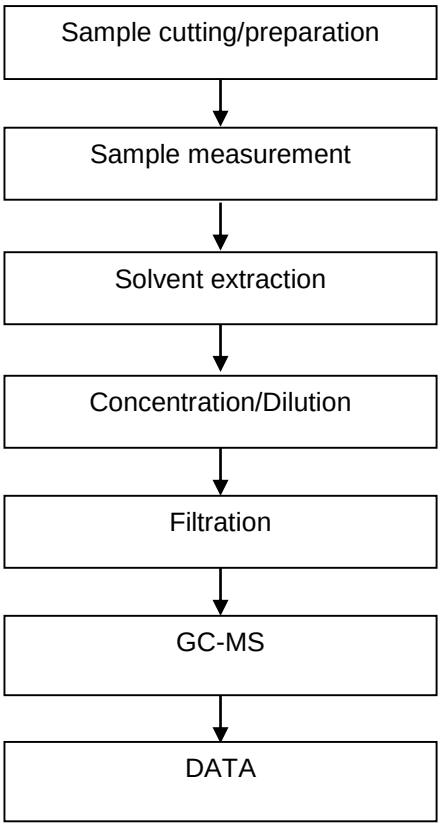
Phthalates Testing Flow Chart



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