

承認文號：A091224079



捷超通訊科技股份有限公司

承 認 書

公司料號：G1532400410900

供應商及料號：慶陞, 6602109081 黑色外罩

料品名稱：Antenna with SMA Connector

料品規格：Frequency Range: 2.4~2.5GHZ

Gain:2.0±0.25dBi, COLOR:BLACK

SMA Connector, 108mm

適用機型：共用機型

注意事項：無鉛報告起始日期:2008/12/24 保存期限:1年

單重(仟克): 0.0086KG

最小包裝量: 10PCS/BAG

受文單位				承認單位		
<input type="checkbox"/> 業務部	<input type="checkbox"/> 製造部	<input type="checkbox"/> 品保部	<input type="checkbox"/> 採購部	核准	審核	承辦人

確認日期：2009/12/24

住址：台北縣中和市立德街 95 號 7 樓

電話：(02)8221-8385，傳真：(02)8221-7229

表單編號：F1RD06D

TO: 捷超通訊股份有限公司

SPECIFICATION FOR APPROVAL

DESCRIPTION : 2.4GHz Antenna with SMA Connector

CUSTOMER DWG. NO. /PART NO : _____

KINSUN PROD. NO : 6602109081 黑色外罩

DATE : 2009.12.18

PLEASE RETURN TO US ONE COPY OF “ SPECIFICATION FOR APPROVAL ” WITH YOUR APPROVED SIGNATURES

APPROVED SIGNATURES



1. 單體重量:8.6g
2. 保存期限:一年
3. 最小包裝:10PCS/BAG

	APPROVED	CHECKED	PREPARED
NAME	Yang Alan	Roy Wu	Stella Wang

慶陞工業股份有限公司



KINSUN INDUSTRIES INC.

桃園縣中壢市普忠路 211 巷 20 號

TEL : 886-3-4353551

FAX : 886-3-4353951

<http://www.kinsun.com>

e-mail: roy@kinsun.com

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TECHNICAL DATA

Electrical Properties

Frequency Range: 2.4~2.5 GHz

Impedance: 50 Ohm nominal

V.S.W.R : 2.0

Gain : 2dBi±0.25

Radiation: Omni

Polarization: Vertical

Electrical Wave: Dipole array

Connector: SMA Connector

Mechanical Properties

Antenna Cover: TPE

Color : BLACK

Operation Temperature:-20 ~+65

Storage Temperature:-30 ~+75

RoHS COMPLIANT

MECHANICAL

Antenna Cover : TPE

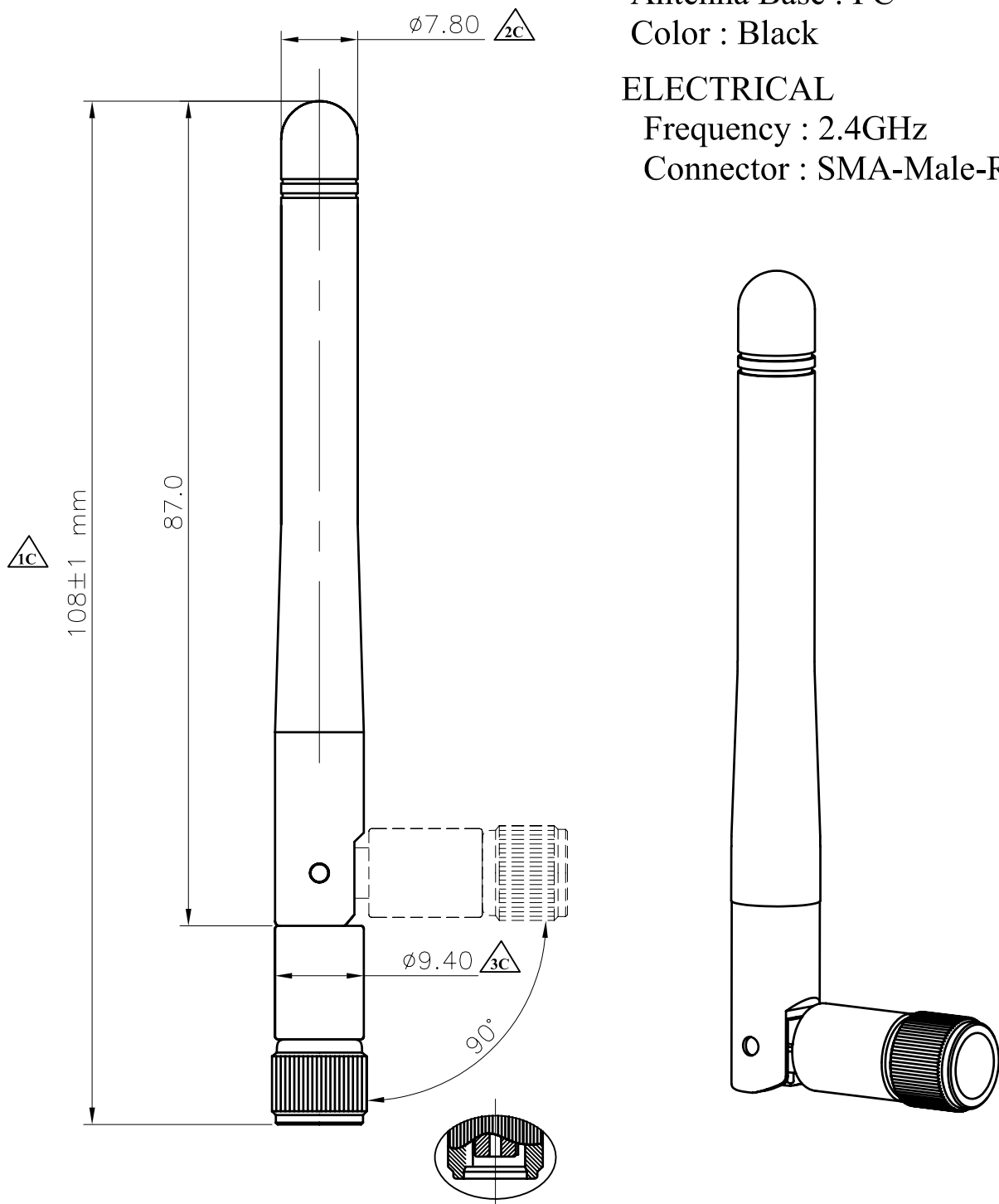
Antenna Base : PC

Color : Black

ELECTRICAL

Frequency : 2.4GHz

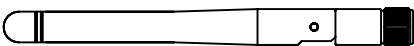
Connector : SMA-Male-RP

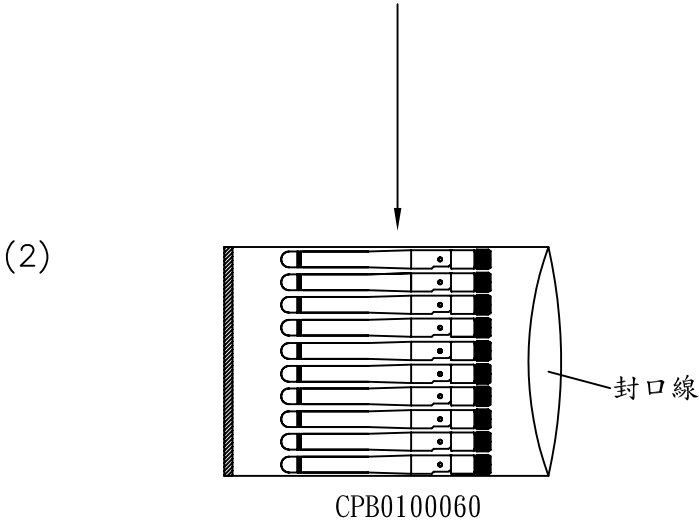


※凡標註△記號者, 為品管檢驗之尺寸

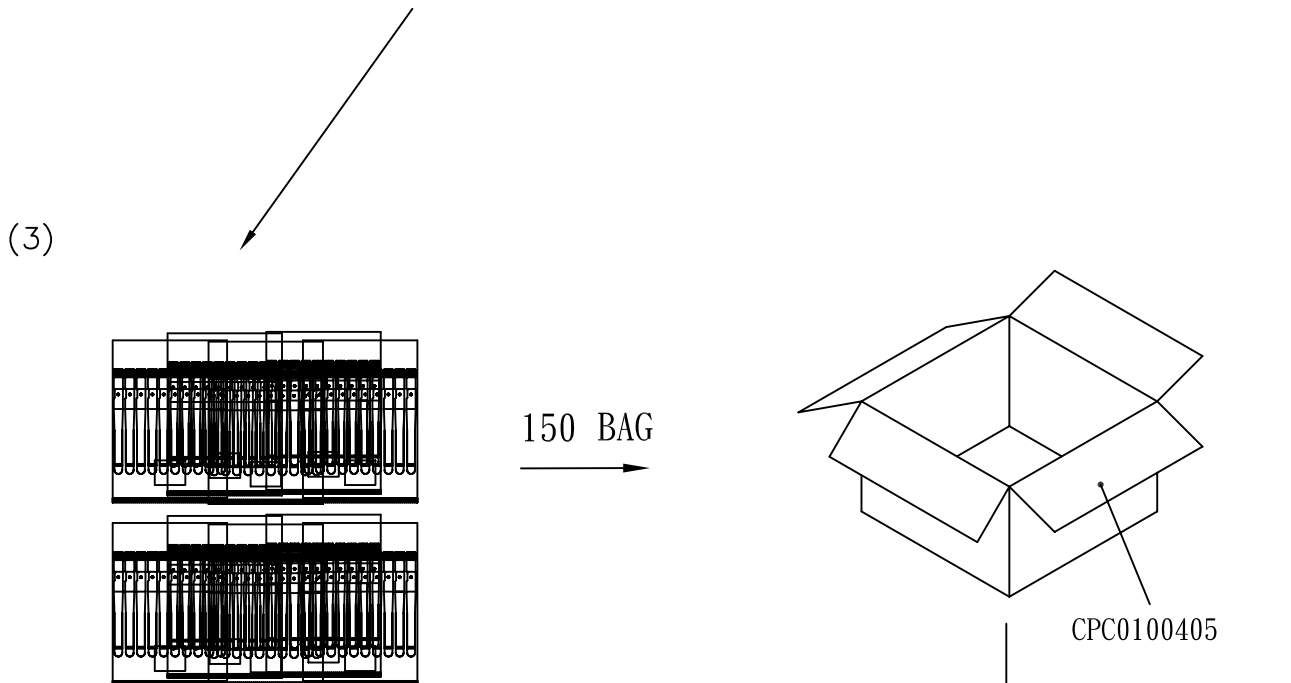
設計DR. Marco 2009/12/01	核准APPD. Jerry 2009/12/01	容許公差 .XXX ±0.10 .XX ±0.25 .X ±0.38 X ±0.50 ANG ±3°	TOLERANCE	品名 ARTICLE 6602-2.4G-SMA
版本說明 REVISION NOTE				圖號 DWG NO. 6602109081
				單位 UNIT mm
				比例 SCALE 1.5/1
				張數 SHEET 1/1
				版本 REV. A

主題 Subject	6602外罩(長)+SMA 180度	文件編號 NO.	EN-6602-P0201	版本 REV.	B
		核准 APPD.	甘錦能	製作者 DR.	戴賢禎

(1)  ← 天線頭朝同一方向, 再依圖標示10pcs*2一袋



- 一. 每個防水袋依圖面標示放入1束成品再以封口機於每袋開口處封口(封口前須將空氣漏掉)
- 二. 小標籤上需註明製令編號, 產品料號, 製作日期



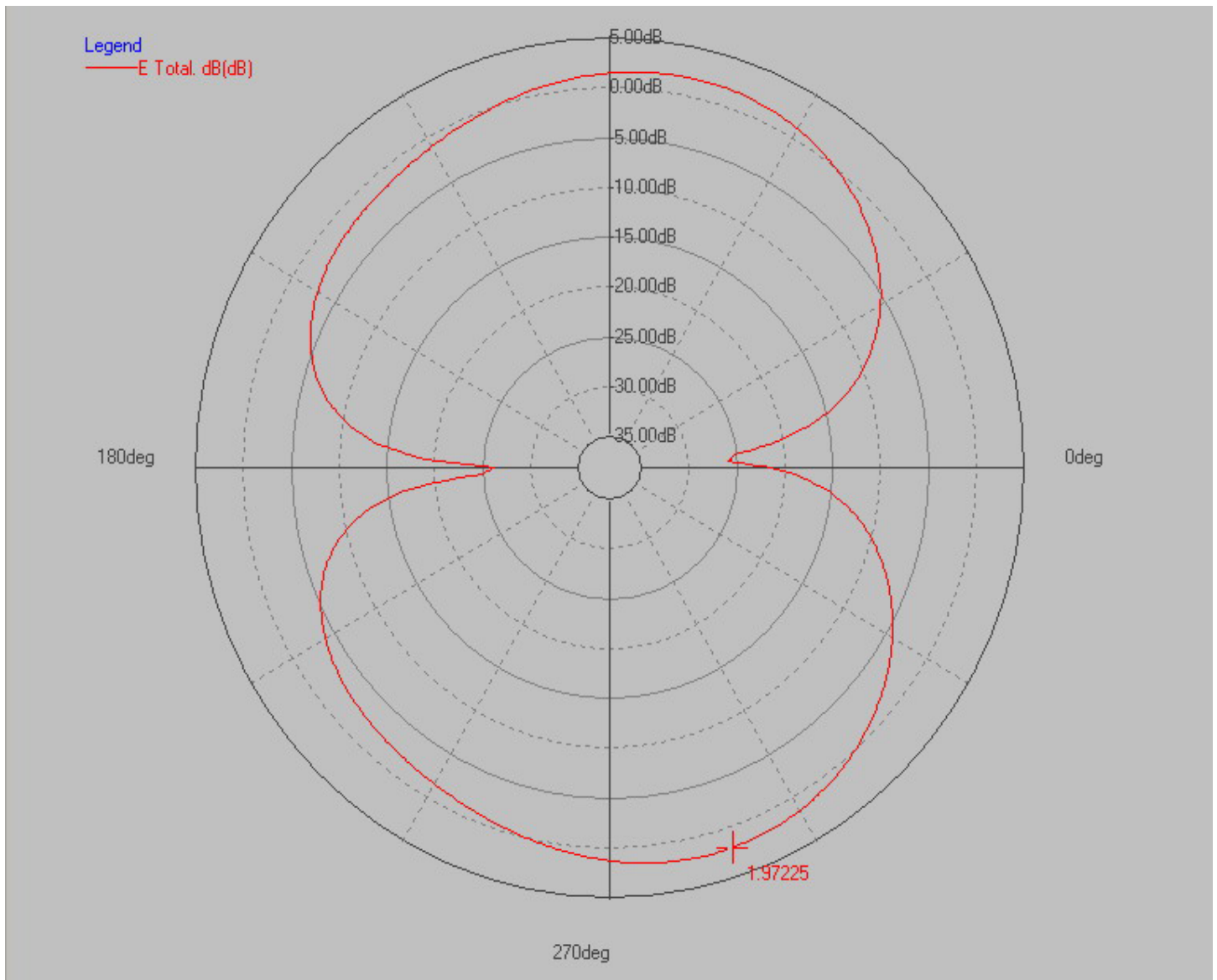
1. 每箱150袋(CPB0100060)內。
2. 每箱袋數不滿以牛皮紙帶填滿。
3. 上下放隔板。
4. 封箱出貨。
5. 尾數請用CPC0100601的外箱。

製令標籤 唛頭標籤 淨毛重標籤 封箱膠帶

Brand / Model : 6602109081

Remark : 2450MHz

Tested by : Nick Dai



[51] 1D view / Frequency=2450.00MHz

-- : Max. deg

*Unit : dBi

Frequency(MHz) : **2450.00**

Pattern Field : **E plane**

Average Gain(dB) : **-2.46dB**

Maximum Gain(dB) : **1.97dB**

Maximum Gain(degree) : **-71.43**

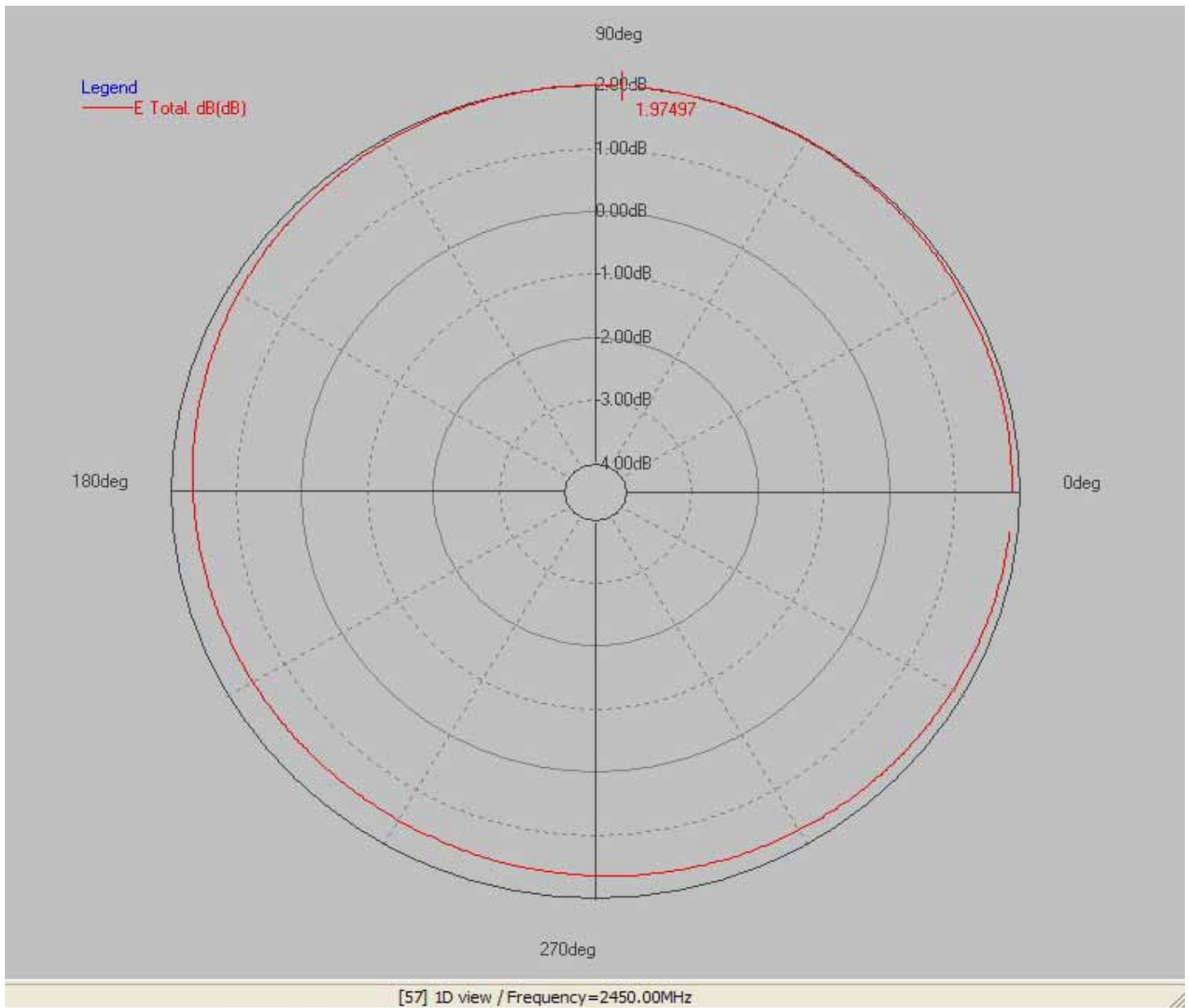
Minimum Gain(dB) : **-26.29dB**

Minimum Gain(degree) : **-180.00**

Brand / Model : 6602109081

Remark : 2450MHz

Tested by : Nick Dai



-- : Max. deg

*Unit : dBi

Frequency(MHz) : **2450.00**

Pattern Field : **H plane**

Average Gain(dB) : **1.78dB**

Maximum Gain(dB) : **1.97dB**

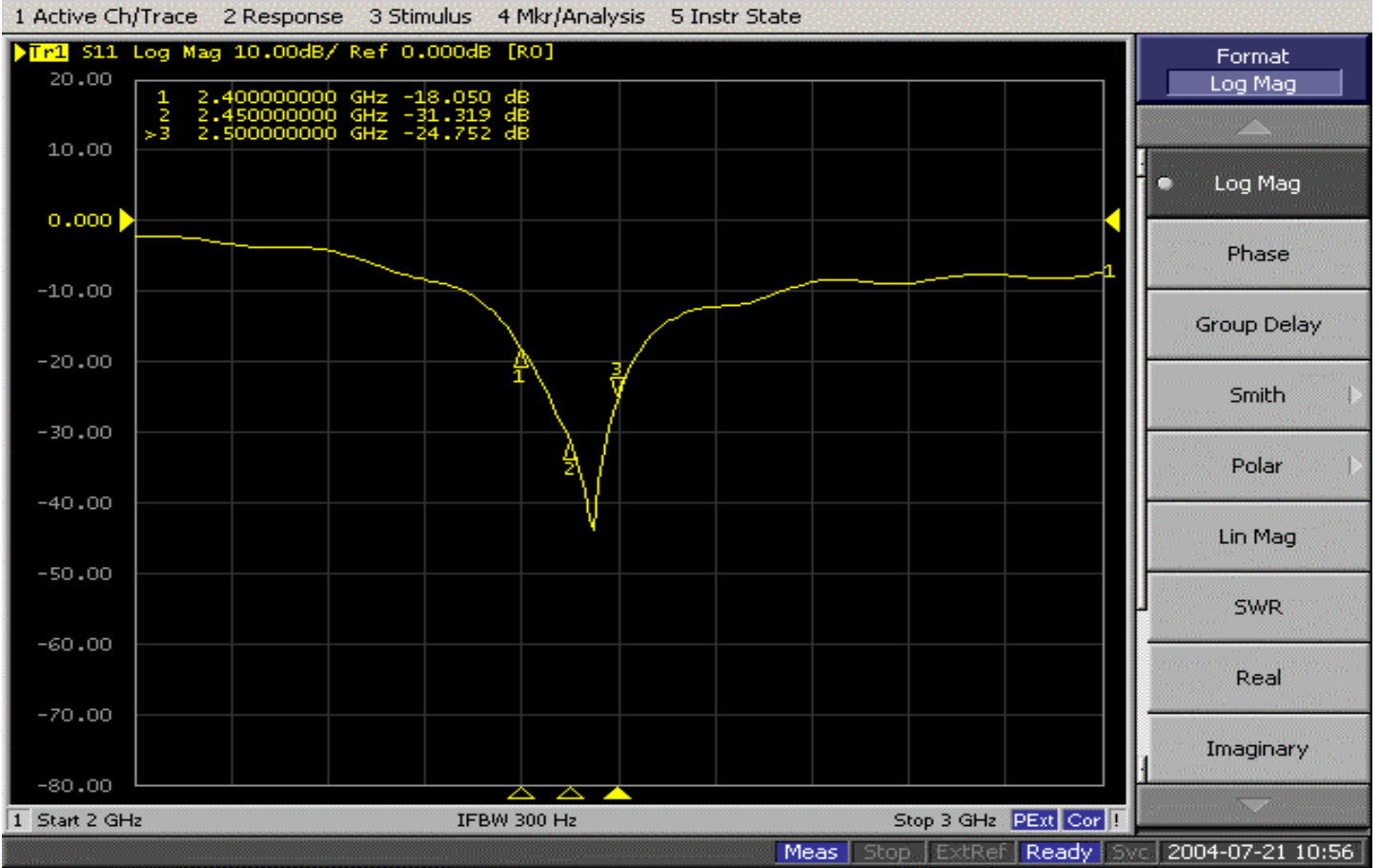
Maximum Gain(degree) : **85.50**

Minimum Gain(dB) : **1.54dB**

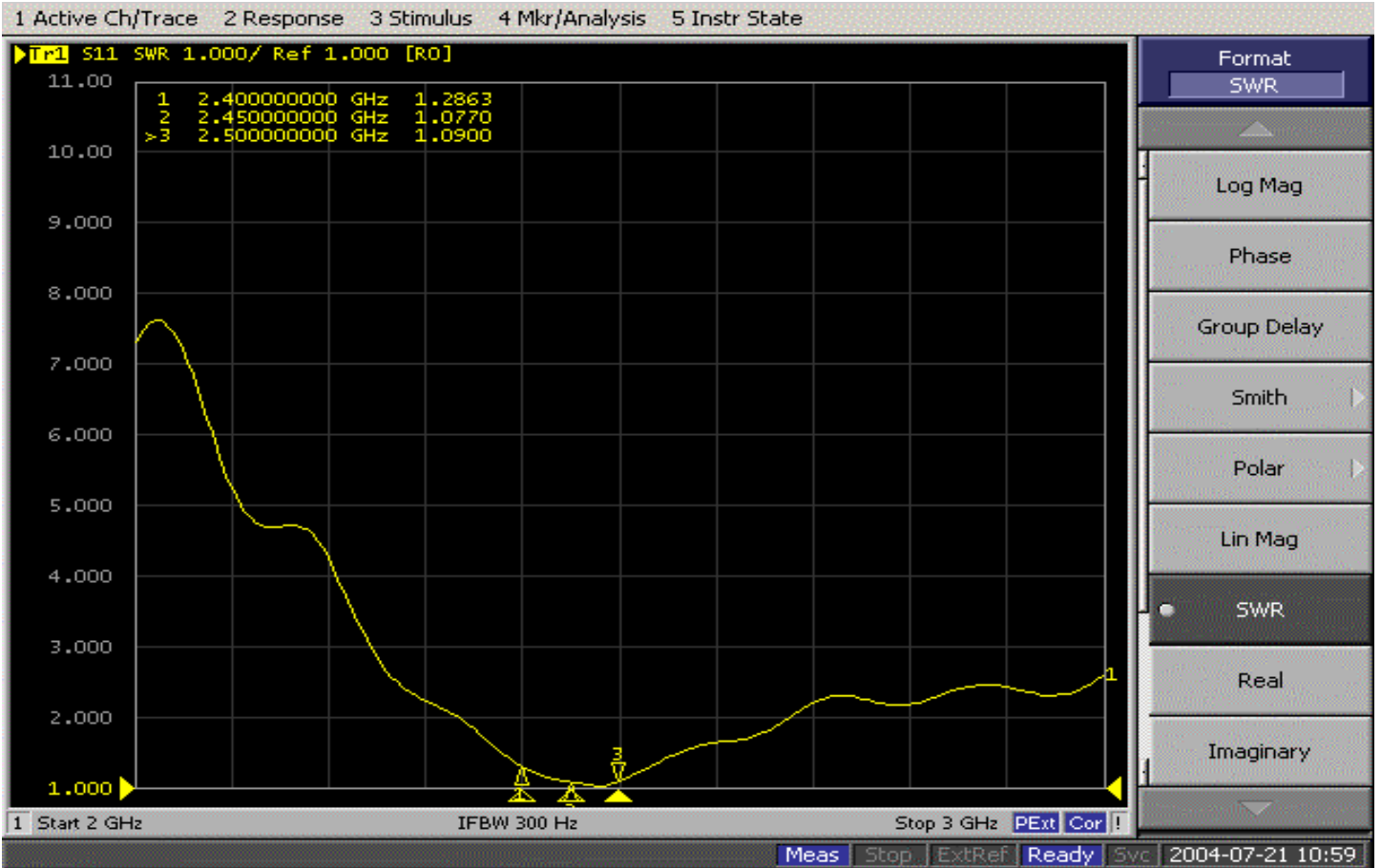
Minimum Gain(degree) : **228.81**

6602109081

S11



VSWR



KEYFLEX BT-1063D

Applications

Fuel tanks, gears, tubes, hose

Description

KEYFLEX BT-1063D has flexibility and elastic resiliency similar to those of rubber as well as mechanical strength, heat-resistance and weather-resistance better than those of rubber. All grade of KEYFLEX BT are block copolymers consisting of a hard (crystalline) segment of polybutylene-terephthalate and a soft (amorphous) segment based on long-chain polyether glycol. Properties are determined by the ratio of hard to soft segment.

Properties	Test Method	Test Condition	Unit	Value
Physical				
Hardness	ASTM D2240	Shore D	–	63
Specific Gravity	ASTM D792		–	1.22
Water Absorption	ASTM D570	24hr, 23°C	%	0.3
Mold Shrinkage	ASTM D955		%	1.5
Mechanical				
Tensile Strength at break	ASTM D638		kg/cm ²	410
			MPa	40.2
			psi	5830
Elongation at break	ASTM D638		%	550
Tensile Strength at yield	ASTM D638		kg/cm ²	200
			MPa	19.6
			psi	2850
Tensile Strength (5% Elongation)	ASTM D638		kg/cm ²	110
			MPa	10.8
			psi	1570
Flexural modulus	ASTM D790		kg/cm ²	3100
			MPa	304
			10 ³ × psi	4410
IZOD Impact Strength	ASTM D256	Noched, 23°C	kg·cm/cm	NB
			J/m	NB
			ft·lb/in	NB
		Noched, -40°C	kg·cm/cm	10
			J/m	98
			ft·lb/in	1.8
Tear Strength	ASTM D624	R-Scale	kg/cm	165
			lb/in	925
Thermal				
Melt Flow Index (MI)	ASTM D1238	2.16kgf	g/10min	28 ³
Melt Temperature	DSC	0.45 MPa	°C	210
			°F	410
Heat Deflection Temperature	ASTM D648	0.45 MPa	°C	124
			°F	256

Characteristics

2005年10月13日

台灣帝人化成(股)有限公司

パンライト試験成績表

拝啓 貴社ますますご清祥の事と、お慶び申し上げます。
 平素は、パンライトをお引き立て賜り厚く御礼申し上げます。
 さて、標記の件につきまして、下記の通りご報告いたします。

記

G R A D E : LN - 1250GCOLOR NO. : NAT項目：分子量測定

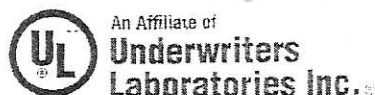
LOT NO.	Q'TY(KGS)	規格値	測定値	合否判定
H4605928	9,750	21,600±1000	21,630	OK

MFR測定

LOT NO.	Q'TY(KGS)	規格値	測定値	合否判定
H4605928	9,750	10.0±3.0%	11.5	OK



UL International Services Ltd.--Taiwan Branch
4th Floor
No. 260 Da-Yeh Road
Pei Tou, Taipei, Taiwan 112
Telephone: 886-2-2896-7790
Fax: 886-2-2891-7644
Email: ul.tw@tw.ul.com



MR S N WONG
WONDERFUL HI-TECH CO LTD
CHUNG LI INDUSTRIAL PARK
17 PEI YUAN RD
CHUNG-LI, FU SHING LEE
TAOYUAN HSIEN TAIWAN

Date: 2003/09/22
Subscriber: 699947002
File No: E77981
Project No: 03CA21293
PD No: 03O15304
Type: L
PO Number: S WONG

Subject: Procedure And/Or Report Material

The following material resulting from the investigation under the above numbers is enclosed.

Issue

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
1981/04/09	1	1	Revised Title of Authorized Styles H, J	2003/09/18
1981/04/09	1	1	New Facing Pages 1745, 1979	2003/09/18

Inspections at your plant will be conducted under the supervision of Mr. Hank Su, Field Supervisor, 4th Fl. 260 Da-Yeh Road, Pei Tou District, Taipei 112 Taiwan, PHONE: 886 2 28938008 ext. 108, FAX: 886 2 28978628.

Marks as needed may be obtained from: UL International Service Ltd., 4th Fl., 260 Da-Yeh Road, Peitou, Taipei City, Taiwan 112, PHONE: 886 2 28967790, FAX: 886 2 28917644, ATTN: Iris Tseng.

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to LAURA CHANG (886-2-2896-7790), referring to the above Project and/or PD Numbers.

c: TPI File

UL INSPECTION CENTER 408

TABLE OF AUTHORIZED STYLES
 SINGLE-CONDUCTOR THERMOPLASTIC-INSULATED WIRE

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TABLE OF AUTHORIZED STYLES
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1924		1949		1974		1999	
1925		1950		1975		10000	

SPECIFICATION FOR APPROVAL

DOCUMENT: A30178B003

STYLE : RG-178B/U

SIZE: 7/0.102 SCCS

RECOGNIZED: UL 1979



WONDERFUL HI-TECH CO.,LTD

OFFICE : 72WU KONG 6TH ROAD,
WU KU IND. DISTRICT
TAIPEI HSIEN, TAIWAN

FACTORY : 17 PEI YUAN ROAD,
CHUNG-LI IND. PARK
TAIWAN, R.O.C.

TEL : (02)22988033
FAX : (02)22988031-2

TEL : (03)4527777
FAX : (03)4517214

 **WONDERFUL HI-TECH CO., LTD**
SPECIFICATION

STYLE	105 30V UL1979	DOCUMENT NO : A30178B003	
SIZE	RG-178B/U	ESTABLISHED DATE: 2003/09/22	
STANDARD : MIL-C-17			
Conductor	Size	AWG	30
	Material	----	Silver-Coated Copper Clad Steel
	Conductors No.	----	7
	Conductors Size	mm	0.102
	O.D.	mm	0.30
Insulation	Average Thickness	mm	0.28
	Diameter	mm	0.86 ±0.03
	Material	----	FEP
	Color	----	Clear
Braid	Material	----	Silver-Coated Copper
	Construction	mm	16 / 3 / 0.10
	Coverage	%	95
Jacket	Average Thickness	mm	0.25
	Diameter	mm	1.80 ±0.05
	Material	----	FEP
	Color	----	Brown
Marking			
Drawing			



WONDERFUL HI-TECH CO., LTD.

SPECIFICATION

Electrical & Physical Properties						
Item		RG-178B/U				
Rating Temperature		-55 ~ + 200				
Conductor Resistance		838 OHM/KM/20 MAX.				
Insulation Resistance		3000 MEGA OHM-KM MIN.				
Dielectric Strength		AC 1.0 KV/Minute				
Spark Test		2.5 KV				
Insulation	Unaged	Tensile Strength	2500 PSI MIN.(1.76 Kg / mm ²)			
		Elongation	200% MIN.			
	Aged	Tensile Strength	UNAGED MIN 75%(168HRS×232)			
		Elongation	UNAGED MIN 75%(168HRS×232)			
Jacket	Unaged	Tensile Strength	2500 PSI MIN.(1.76 Kg / mm ²)			
		Elongation	200% MIN.			
	Aged	Tensile Strength	UNAGED MIN.75%(168HRS×232)			
		Elongation	UNAGED MIN.75%(168HRS×232)			
Nom. Impedance		50 Ohms				
Nom. Capacitance		95.8 pF/m				
Nom. Vel. of Prop.		69.5%				
VSWR (0 – 6 GHZ)		UNDER 1.3				
THERMAL SHOCK		LESS 1mm at 232 /1HR				
BEND RADIUS		9mm Minimum				
Attenuation (dB/100m)	100MHz	1GHz	1.8GHz	2.4GHz	5.2GHz	6GHz
	46	155	295	340	505	550

銅管材質證明

東莞信泰隆五金制品有限公司
SHIN TAY LONG FIVEMETAL PRODUCT CO.,LTD.

產品質量證明書



客戶:	豐茂材料公司		日期:	2007.8.12	
品名	規格	狀態	製造方法	數量	
H65		H			
化學成份	銅(Cu)	鐵(Fe)	鉛(pb)	鋅(Zn)	雜質
	64.878%	0.012%	0.014%	35.093%	0.003%
機械性能	抗拉強度 (不少於)	延伸率 (不少於)	直徑公差		

主管: 胡偉才

化驗員: 李國強



SHIYANG (ZHONG SHAN) METAL PRODUCTS CO., LTD

世扬金属制品有限公司

TEST CERTIFICATE

材質证明书



CLIENT 客户	海睿兴		certificate NO. 证明书号	090413-06
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name article 品名	SIZE(MM) STANDARD	OUTWGT (KG)	DESIGNATION	Brass					REMARK
				Cu(%)	Pb(%)	Fe(%)	Fe+Sn(%)	Cd(%)	
2520	10.75 φ	200	JISC3604 JISC3604	57-61 57.8	1.8-3.7 3.028	≤0.5 0.341	≤1.2 0.826	≤0.0075 0.0017	REM REM

兹证明本表所列产品,均依材料规格制造及试验,并符合规格之要求.
 WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HERE IN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.

核准:  审核: 李玉奎
 THE THREE INDUSTRIAL AREA NAN LANG TOWN ZHONG SHAN CITY
 中国广东省中山市南朗镇第三工业区
 日期: 2009/04/13
 TEL: 0760-85214770 FAX: 0760-85214769
 E-Mail: bs01@shiyangmetal.net

聚甲醛 (POM) 性能

综合性能

密度: 1.43
结晶度: 75%—85%
机械强度: 较高
成型加工温度范围: 约10℃
熔点: 175℃

机械性能

伸强度: 70 MPa
拉伸弹性模数: 2.9 GPa
伸长率: 15%
压缩强度: 127 MPa
挠曲强度: 98 MPa
冲击强度: 108 KJ/m²

热性能

比密: 704 cm³/kg
吸水率 (24h): 0.25%
成型收缩率: 2.0%—2.5%
马丁耐热性: 60℃—64℃
连续耐热性: 85℃

电性能

介电系数 (60Hz, 10Hz) 3.7
介电损耗 (60Hz, 10Hz) 0.004
电阻率: $6 \times 10^9 \Omega \text{cm}$

东莞市创强绝缘体有限公司材质证明

材料名称: 铁氟龙 (PTFE)

一、产品成份表

- 1、聚四氟乙烯 (主要成份99.95%)
- 2、其它辅助成分 (0.05%)

二、物性指标

硬化前	硬度 (A°)	比重	介电常数	压缩强度	伸长率 (%)	导热系数 106EGW/(M°C)	耐热温度 °C
				(Mpa)			
外观				11.4~13.6	156~178	1.8~2.1	255±5
半透明乳白色	50~60	2.12~2.25	1.8~2.2				



大观胶业五金公司 材质证明书

产品名称: 矽胶圈垫

型号: 8*5*1.5/7*4.5*1.25/7*4.5*1.15/20*15.6*1.5/9.7*7.7*1.5

客户: 海睿兴

材质组成: 热硫化混炼硅橡胶等材料按一定的比例复合研制而成。

有关主要物理特性参数:

型号	外观	比重	硬度 (JIS)	伸长率 (%)	拉伸强度 (Kgf/cm ²)	撕裂强度 (KN/m)	扯断永久变形 (%)
Ys-830	半透明乳白色	1.09	32	500	55	8	3.3
Ys-840	半透明乳白色	1.12	42	450	70	10	3.8
Ys-850	半透明乳白色	1.14	51	350	80	14	4.2
Ys-860	半透明乳白色	1.17	61	320	75	15	5.8
Ys-870	半透明乳白色	1.21	70	260	70	15	6.5
Ys-880	半透明乳白色	1.23	80	150	65	12	8
Ys-931	半透明乳白色	1.09	31	470	60	9	3.2
Ys-941	半透明乳白色	1.12	41	400	75	11	3.7
Ys-951	半透明乳白色	1.14	51	330	85	15	4
Ys-961	半透明乳白色	1.17	60	260	75	16	5.5
Ys-971	半透明乳白色	1.2	70	200	70	16	6
Ys-981	半透明乳白色	1.21	80	120	70	12	7
Ys-641	半透明	1.13	42	500	85	30	1.6
Ys-951	半透明	1.15	52	450	95	35	2
Ys-661	半透明	1.19	68	340	90	35	3

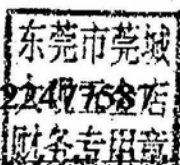
核准: 杨波

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6602109081

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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



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) : RF COAXIAL CABLE RG-178B/U, RG-179/U, RG-316U MINI 0.8mm, 1.13mm, 1.32mm, 1.37mm, 1.48mm, RF405A UL 1330, 1331, 1332, 1333, 1726, 1867, 10231, 10064

樣品型號(Style/Item No.) : BLACK(BK4025), BROWN(BN4027), RED(RD4026), ORANGE(OR4020), YELLOW(YE4029), GREEN(GN4023), BLUE(BL4021), PURPLE(PU4024), GRAY(GY4028), WHITE(WT4022)

收件日期(Sample Receiving Date) : 2009/1/9

測試期間(Testing Period) : 2009/1/9 TO 2009/1/15

=====
測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

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

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測試結果(Test Results)

測試部位(PART NAME) NO.1	:	黑色塑膠粒 (BLACK PLASTIC PELLETS)
測試部位(PART NAME) NO.2	:	棕色塑膠粒 (BROWN PLASTIC PELLETS)
測試部位(PART NAME) NO.3	:	紅色塑膠粒 (RED PLASTIC PELLETS)
測試部位(PART NAME) NO.4	:	橘色塑膠粒 (ORANGE PLASTIC PELLETS)
測試部位(PART NAME) NO.5	:	黃色塑膠粒 (YELLOW PLASTIC PELLETS)
測試部位(PART NAME) NO.6	:	綠色塑膠粒 (GREEN PLASTIC PELLETS)
測試部位(PART NAME) NO.7	:	藍色塑膠粒 (BLUE PLASTIC PELLETS)
測試部位(PART NAME) NO.8	:	紫色塑膠粒 (PURPLE PLASTIC PELLETS)
測試部位(PART NAME) NO.9	:	灰色塑膠粒 (GRAY PLASTIC PELLETS)
測試部位(PART NAME)	:	白色塑膠粒 (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)		
				NO.1	NO.2	NO.3
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 用感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 用感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 用感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321: 2008方法, 用UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	n.d.

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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				NO.1	NO.2	NO.3
磷 / Phosphorus (P)	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磷 含量. / With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES.	2	n.d.	n.d.	18
三氧化二銻 / Antimony trioxide (Sb ₂ O ₃)***(CAS No.: 001309-64-4)	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銻 含量. / With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.	n.d.	n.d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (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. / With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.	---	---
全氟辛酸(銨) / PFOA (CAS No.: 000335- 67-1)	mg/kg	參考US EPA 3540C: 1996方法, 以液相層析質譜儀檢測全氟辛酸 (銨)含量. / With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.	---	---
鹵素(氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子 層析儀分析氯含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.	n.d.	n.d.

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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				NO.1	NO.2	NO.3
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析溴含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.	n.d.	n.d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content.	50	n.d.	n.d.	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl	5	n.d.	n.d.	n.d.		

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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				NO.1	NO.2	NO.3
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321: 2008方法, 以 氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.	n.d.	n.d.
十溴聯苯醚 / Decabromodiphenyl ether	5	n.d.	n.d.	n.d.		

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				NO.4	NO.5	NO.6
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 用 感應耦合電漿原子發射光譜儀檢 測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 用 感應耦合電漿原子發射光譜儀檢 測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 用 感應耦合電漿原子發射光譜儀檢 測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	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)		
				NO. 4	NO. 5	NO. 6
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321: 2008方法, 用 UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	n.d.
磷 / Phosphorus (P)	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磷 含量. / With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES.	2	n.d.	n.d.	n.d.
三氧化二銻 / Antimony trioxide (Sb ₂ O ₃)*** (CAS No.: 001309-64-4)	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銻 含量. / With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.	n.d.	n.d.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子 層析儀分析氯含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.	---	n.d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子 層析儀分析溴含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.	n.d.	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)		
				NO. 4	NO. 5	NO. 6
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content.	50	n.d.	n.d.	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.	n.d.	n.d.
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	5	n.d.	n.d.	n.d.		
十溴聯苯醚 / Decabromodiphenyl ether	5	n.d.	n.d.	n.d.		

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測試報告

Test Report

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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果(Result)		
				NO.7	NO.8	NO.9
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 用感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 用感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 用感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321: 2008方法, 用UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	n.d.
磷 / Phosphorus (P)	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磷含量. / With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES.	2	n.d.	---	14
三氧化二銻 / Antimony trioxide (Sb ₂ O ₃)*** (CAS No.: 001309-64-4)	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銻含量. / With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.	n.d.	n.d.

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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果(Result)		
				NO.7	NO.8	NO.9
鹵素(氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析氯含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.	n.d.	n.d.
鹵素(溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析溴含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.	n.d.	n.d.
鹵素(碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content.	50	n.d.	n.d.	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl	5	n.d.	n.d.	n.d.		

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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果(Result)		
				NO.7	NO.8	NO.9
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321: 2008方法, 以 氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.	n.d.	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.	n.d.	n.d.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.10
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 用 感應耦合電漿原子發射光譜儀檢 測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 用 感應耦合電漿原子發射光譜儀檢 測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 用 感應耦合電漿原子發射光譜儀檢 測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.

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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.10
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321: 2008方法, 用 UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
磷 / Phosphorus (P)	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磷 含量. / With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES.	2	12
三氧化二銻 / Antimony trioxide (Sb ₂ O ₃)*** (CAS No.: 001309-64-4)	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銻 含量. / With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子 層析儀分析氯含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子 層析儀分析溴含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.

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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.10
鹵素(碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content.	50	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	5	n.d.		
十溴聯苯醚 / Decabromodiphenyl ether	5	n.d.		

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測試報告

Test Report

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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. ***: 該物質是由"三丁基錫", "三苯基錫"或各別元素(例如: 銻、鉍、矽、鋅、鈷或磷)之測試結果計算得知. 其MDL是針對"三丁基錫", "三苯基錫"或元素(例如: 銻、鉍、矽、鋅、鈷或磷)之評估.
(The substance is calculated by the test results of Tributyl Tin, Triphenyl Tin or element (Ex. Antimony、Beryllium、Silicon、Zinc、Cobalt or Phosphorus respectively).
The MDL is evaluated for Tributyl Tin, Triphenyl Tin or element (Ex. Antimony、Beryllium、Silicon、Zinc、Cobalt or Phosphorus respectively.))

PFOS參考資訊(Reference Information) : 指令 2006/122/EC (Directive 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%。
(May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.)
- (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 $1\mu\text{g}/\text{m}^2$ 。
(May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than $1\mu\text{g}/\text{m}^2$ of the coated material.)

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萬泰科技股份有限公司

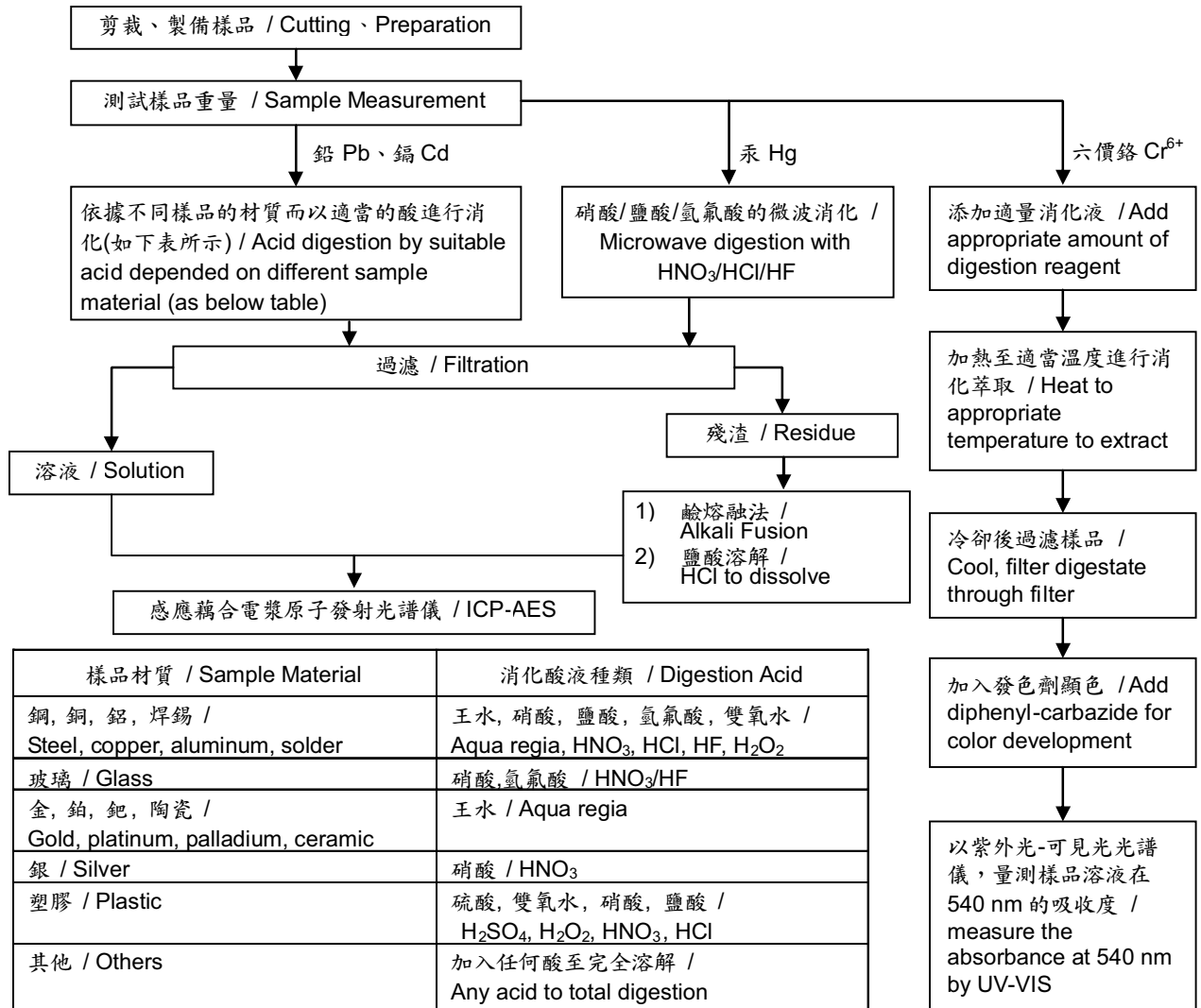
WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



- 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. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

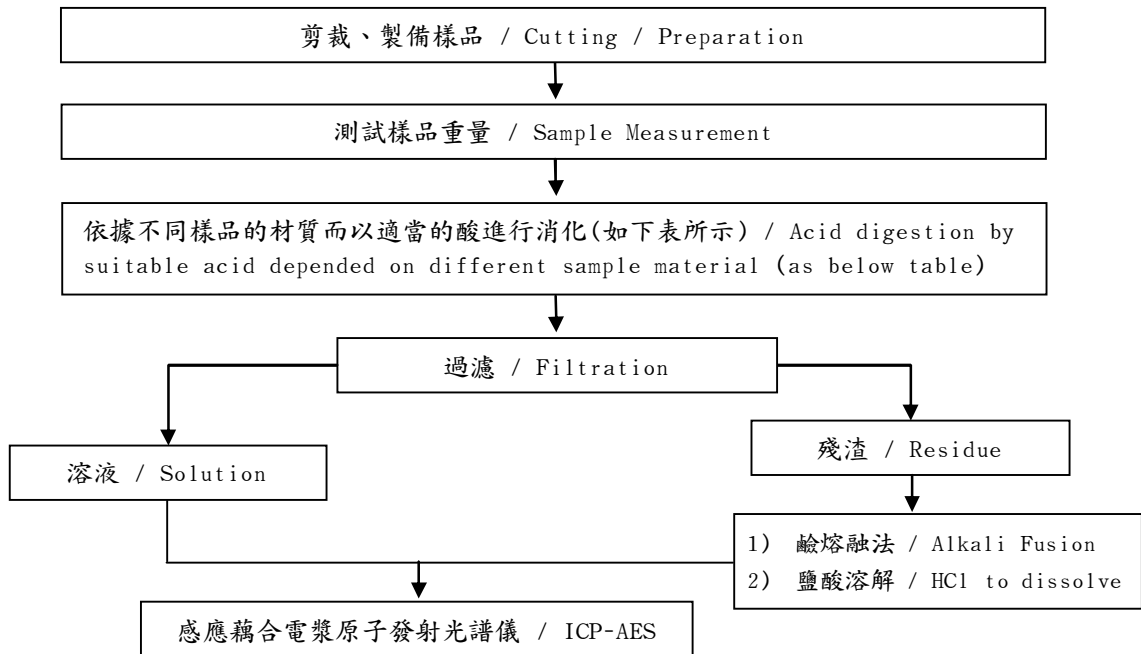
桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



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

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



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

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測試報告 Test Report

號碼(No.) : CE/2009/11501C 日期(Date) : 2009/01/15 頁數(Page) : 16 of 21

萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



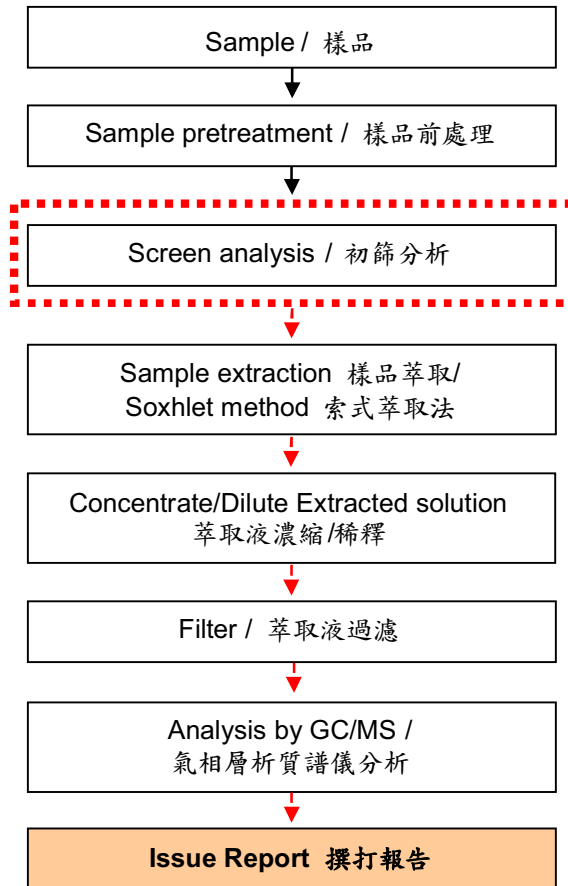
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen

初次測試程序 / First testing process ———→

選擇性篩檢程序 / Optional screen process→

確認程序 / Confirmation process - - - ->



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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

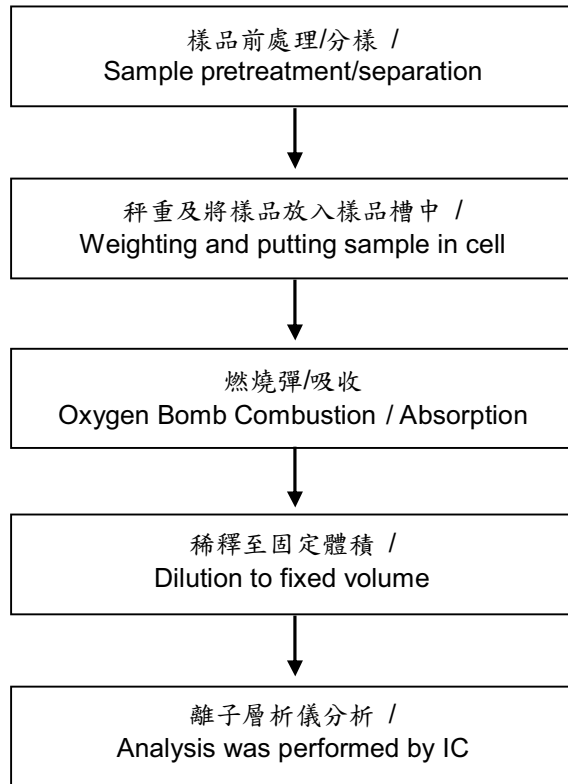
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NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



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

- 1) 測試人員：陳立倫 / Name of the person who made measurement: Alan Chen
- 2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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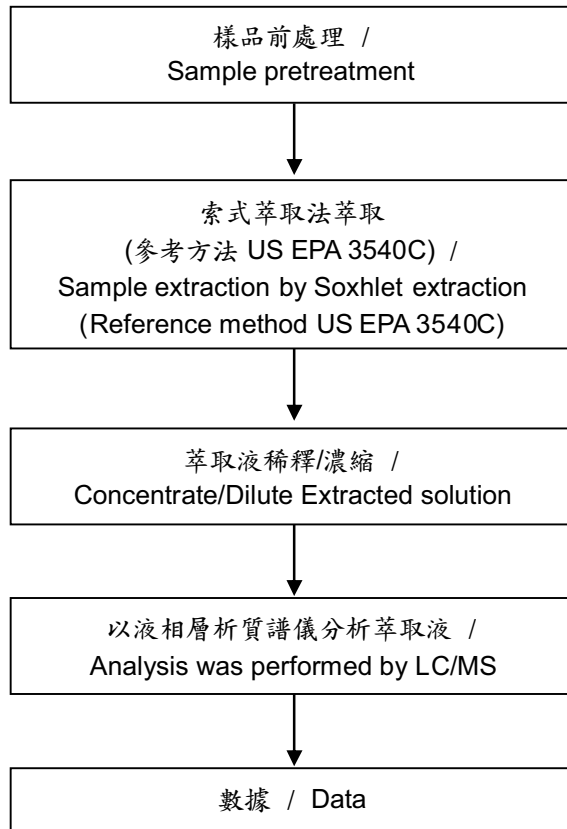
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NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



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

- 1) 測試人員：劉家瑗 / Name of the person who made measurement: Carrie Liu
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen



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WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

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** 報告結尾(End of Report) **

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測試報告 Test Report

號碼(No.): CE/2008/C4566

日期(Date): 2008/12/24

頁數(Page): 1 of 4

有春電線股份有限公司

YEOU CHUEN WIRE CO., LTD.

桃園縣平鎮市中豐路南勢二段460巷112號

112, LANE 460, NAN HSEN 2ND SECTION, CHUNG FENG RD., PING CHEN CITY,

TAOYUAN HSIEN TAIWAN REPUBLIC OF CHINA



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) : 鍍銀銅包鋼線 (SILVER-PLATED COPPER CLAD STEEL WIRE)

收件日期(Sample Receiving Date) : 2008/12/17


測試期間(Testing Period) : 2008/12/17 TO 2008/12/24

=====
測試需求(Test Requested) : 參照 RoHS 2002/95/EC 及其修定指令要求. (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).

測試方法(Test Method) : 參考 IEC 62321/2nd CDV (111/95/CDV) 方法檢測. (With reference to IEC 62321/2nd CDV (111/95/CDV). Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).

- (1) 用感應耦合電漿原子發射光譜儀檢測鎘含量. / Determination of Cadmium by ICP-AES.
- (2) 用感應耦合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AES.
- (3) 用感應耦合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.
- (4) 針對金屬材質之樣品，用 Spot test / boiling water extraction 方法檢測六價鉻含量. / Determination of Hexavalent Chromium for metallic samples by Spot test / boiling water extraction Method.

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).


Nicole Chien / Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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測試報告

Test Report

號碼(No.): CE/2008/C4566

日期(Date): 2008/12/24

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有春電線股份有限公司

YEOU CHUEN WIRE CO., LTD.

桃園縣平鎮市中豐路南勢二段460巷112號

112, LANE 460, NAN HSEN 2ND SECTION, CHUNG FENG RD., PING CHEN CITY,

TAOYUAN HSIEN TAIWAN REPUBLIC OF CHINA



測試結果(Test Results) 單位(Unit): mg/kg

測試項目 (Test Items)	測試方法 Method (Refer to)	結果 (Result)	方法偵測 極限值 (MDL)
		No.1	
鎘 / Cadmium (Cd)	(1)	n.d.	2
鉛 / Lead (Pb)	(2)	n.d.	2
汞 / Mercury (Hg)	(3)	n.d.	2
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4

測試部位描述 (TEST PART DESCRIPTION):

NO.1 : 銀色金屬線 (SILVER COLORED METAL WIRE)

備註(Note):

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),
Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);
The tested sample should be further verified by boiling-water-extraction method if the
spot test result cannot be confirmed.

(當該測項無法確認時, 測試樣品可藉由boiling-water-extraction測試方法進一步確認)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),
Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);
the detected concentration in boiling-water-extraction solution is equal or
greater than 0.02 mg/kg with 50 cm² sample surface area.
該溶液濃度 \geq 0.02 mg/kg with 50 cm² (sample surface area)

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測試報告 Test Report

號碼(No.): CE/2008/C4566

日期(Date): 2008/12/24

頁數(Page): 3 of 4

有春電線股份有限公司

YEOU CHUEN WIRE CO., LTD.

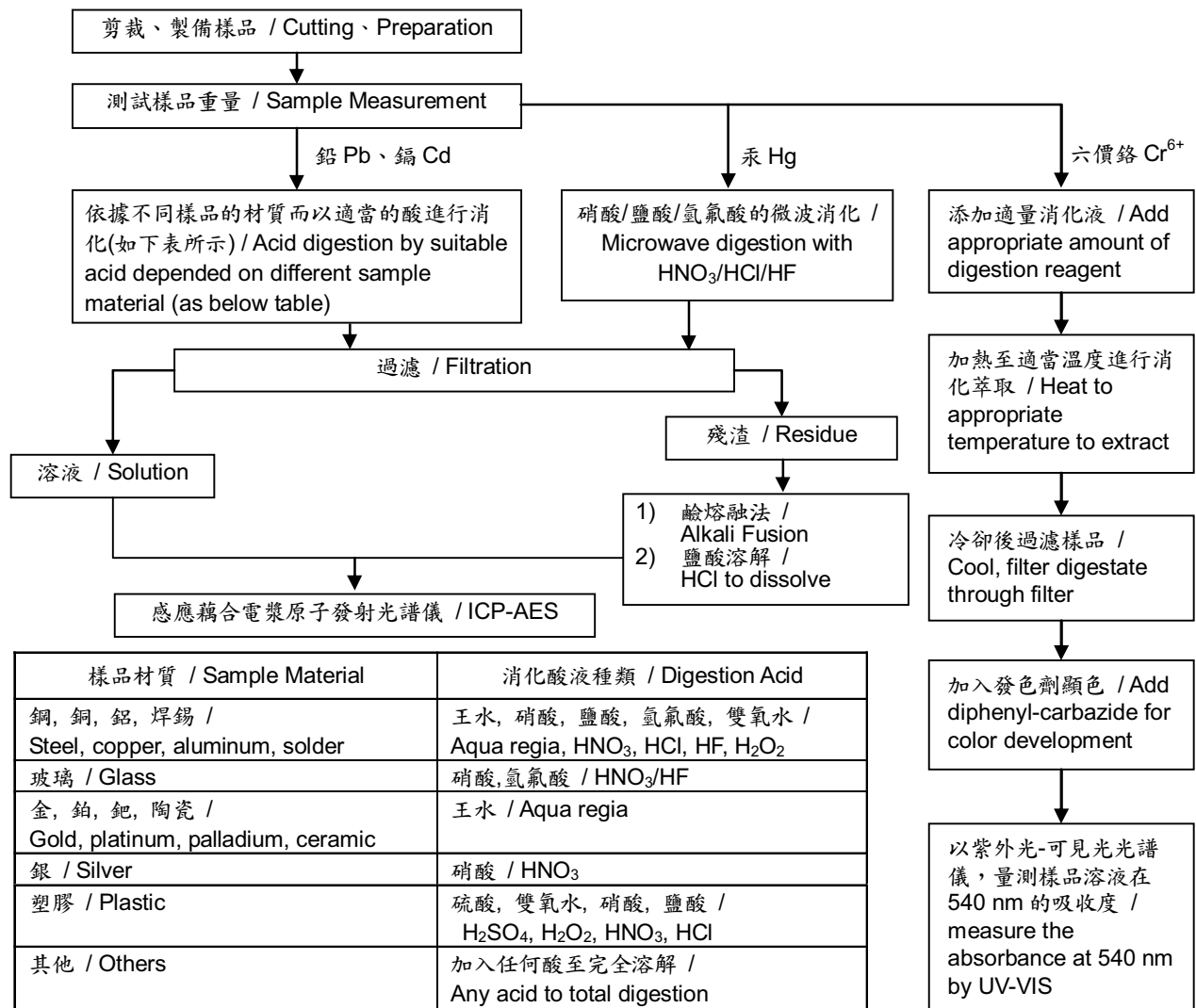
桃園縣平鎮市中豐路南勢二段460巷112號

112, LANE 460, NAN HSEN 2ND SECTION, CHUNG FENG RD., PING CHEN CITY,

TAOYUAN HSIEN TAIWAN REPUBLIC OF CHINA



- 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. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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測試報告 Test Report

號碼(No.) : CE/2008/C7175 日期(Date) : 2009/01/07 頁數(Page) : 1 of 15

慕明企業有限公司

MOLECULE ENTERPRISE CO., LTD.

台北市中山北路二段112號11樓之4

11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN



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

樣品名稱(Sample Description) : FEP氟碳聚合物顆粒
樣品型號(Style/Item No.) : NP-102
收件日期(Sample Receiving Date) : 2008/12/29
測試期間(Testing Period) : 2008/12/29 TO 2009/1/7

=====
測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

結論(Conclusion) : 根據客戶所提供的樣品，其鎘、鉛、汞、六價鉻、多溴聯苯及多溴聯苯醚的測試結果符合RoHS(2002/95/EC)及其修定指令之要求 (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs are **compliant with** the limits of RoHS Directive 2002/95/EC and its subsequent amendments).

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

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台北市中山北路二段112號11樓之4

11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN



測試結果(Test Results)

測試部位(PART NAME) NO.1 : 透明色塑膠粒 (TRANSPARENT 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 IEC 62321: 2008方法, 用感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	100
鉛 / Lead (Pb)	mg/kg	參考 IEC 62321: 2008方法, 用感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
汞 / Mercury (Hg)	mg/kg	參考 IEC 62321: 2008方法, 用感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考 IEC 62321: 2008方法, 用UV-VIS 檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
磷 / Phosphorus (P)	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磷含量. / With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-	2	n.d.	-
三氧化二銻 / Antimony trioxide (Sb ₂ O ₃)***(CAS No.: 001309-64-4)	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銻含量. / With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.	-

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MOLECULE ENTERPRISE CO., LTD.

台北市中山北路二段112號11樓之4

11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	法規 限值 (Limit)
				NO.1	
氯化石蠟 / Chlorinated Paraffin (C10~C13) (CAS No.: 010871-26-2)	%	參考US EPA 3540C方法, 以氣相層析 質譜儀(GC/MS)檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.01	n.d.	-
聚氯乙烯 / PVC	**	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	-	Negative	-
全氟辛烷磺酸 / Perfluorooctane sulfonates (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. / With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.	-
全氟辛酸(銨) / PFOA (CAS No.: 000335- 67-1)	mg/kg	參考US EPA 3540C: 1996方法, 以液 相層析質譜儀檢測全氟辛酸(銨)含量. / With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.	-
鹵素 / Halogen		參考BS EN 14582:2007, 以離子層析 儀分析氟, 氯, 溴, 碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for F, Cl, Br, I content.			
鹵素(氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析 儀分析氟含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	222000	-
鹵素(氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析 儀分析氯含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.	-

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11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	法規 限值 (Limit)
				NO.1	
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析溴含量。 / With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.	-
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析碘含量。 / With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content.	50	n.d.	-
可塑劑定量分析 / Phthalates					
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸丁酯苯甲酯 / BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 028553-12-0)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.01	n.d.	-

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11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	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EN 14372: 2004, 以氣相層析儀/質譜儀檢測之. / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.01	n.d.	-
多溴聯苯總和 / Sum of PBBs	mg/kg	參考 IEC 62321: 2008方法, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000
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.	-
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	5	n.d.	-		
十溴聯苯醚 / Decabromodiphenyl ether	5	n.d.	-		

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備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. **= Qualitative analysis (No Unit) 定性分析(無單位)
6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
7. 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)
8. ***: 該物質是由"三丁基錫", "三苯基錫"或各別元素(例如: 銻、鉍、矽、鋅、鈷或磷)之測試結果計算得知. 其MDL是針對"三丁基錫", "三苯基錫"或元素(例如: 銻、鉍、矽、鋅、鈷或磷)之評估.
(The substance is calculated by the test results of Tributyl Tin, Triphenyl Tin or element (Ex. Antimony, Beryllium, Silicon, Zinc, Cobalt or Phosphorus respectively). The MDL is evaluated for Tributyl Tin, Triphenyl Tin or element (Ex. Antimony, Beryllium, Silicon, Zinc, Cobalt or Phosphorus respectively.))

PFOS參考資訊(Reference Information) : 指令 2006/122/EC (Directive 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%.
(May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.)
- (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 $1\mu\text{g}/\text{m}^2$.
(May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than $1\mu\text{g}/\text{m}^2$ of the coated material.)

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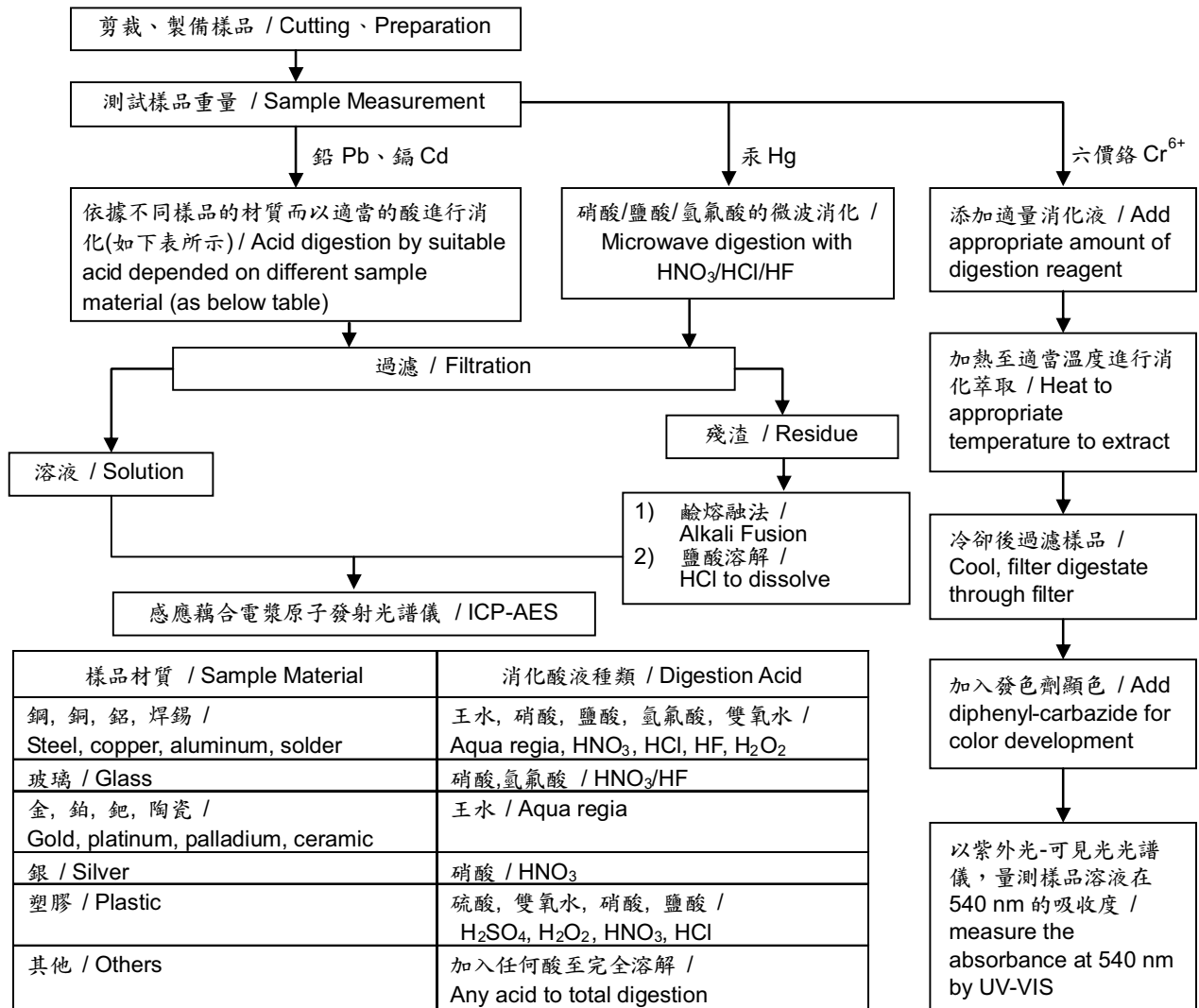
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台北市中山北路二段112號11樓之4

11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN



- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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