SPECIFICATION FOR APPROVAL

| APPI | ROVAL SIGNAT | URE |
|------|--------------|-----|
| | | |
| | | |
| | DATE: | |

CUSTOMER:

Digi PART NO:

Rev.

DESCRIPTION: Antenna, 2.4GHz

PLEASE SIGN AND RETURN ONE COPY.

ALL PRODUCTION UNITS WILL BE BUILT ACCORDING TO THIS SPECIFICATIONS.

MODEL NO:

SA-006 3rd generation

AGENCY APPROVAL:

PRESENTED BY:

Ben Yang

CHECKED BY:

Johnson Lin

APPROVED BY:

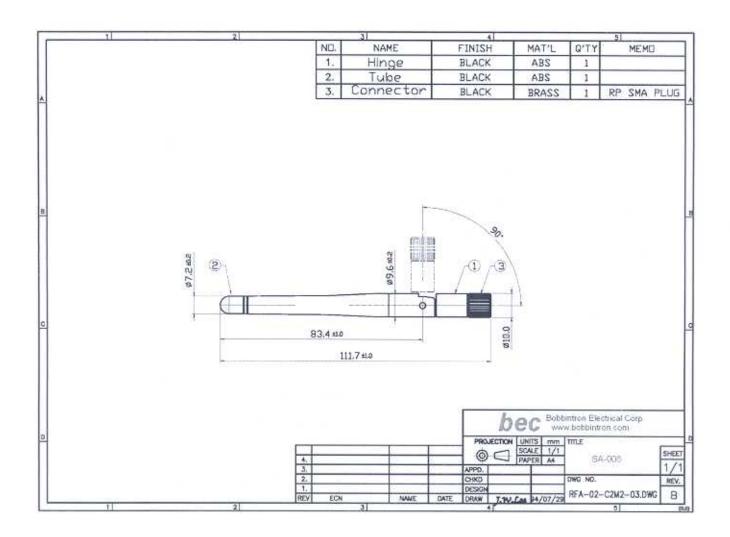
Michael Chen

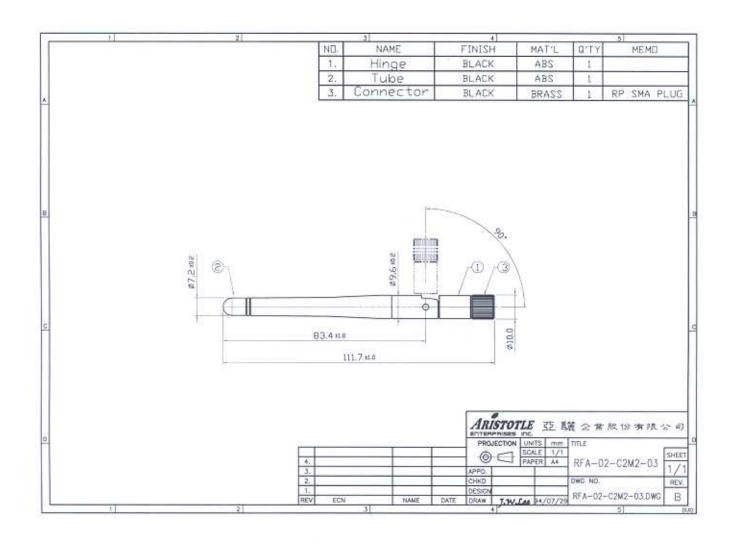
DATE: 24 November 2006

27F, NO. 183, HSIN TAI WU ROAD SEC. 1, HSIN-JR CITY, TAIPEI HSIEN, TAIWAN, R.O.C.

TEL: (886)2-2642-4205 FAX: (886)2-2642-3654

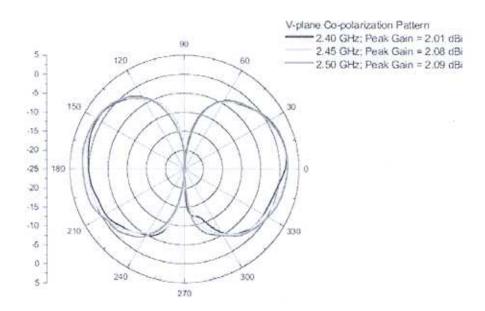
Website: www.bobbintron.com EMAIL: sales@bobbintron.com



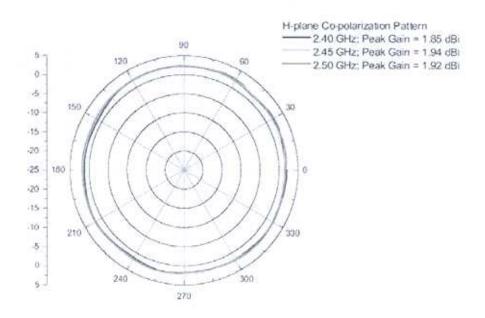


Antenna Radiation Patterns

11b dipole Antenna Radiation Pattern: E-Plane

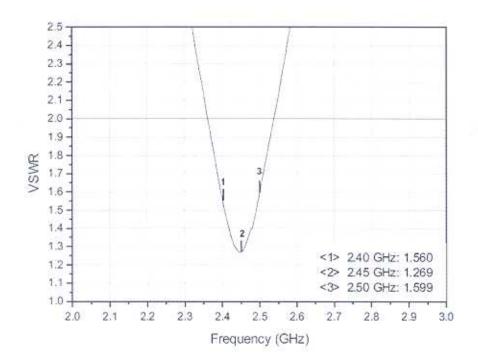


11b dipole Antenna Radiation Pattern: H-Plane

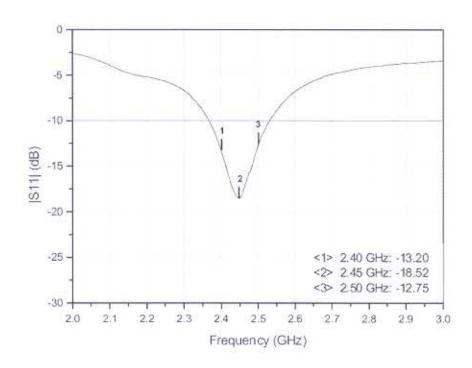


Antenna VSWR / Return Loss

11b Antenna dipole VSWR



11b Antenna Return Loss



59-1 S.A.N CHLA, JEN TE, TAINAN COUNTY, TAIWAN R.O.C. TEL: 886-6-266-5000,

F.4X: 886-6-266-3555~7

泛用級 ABS, POLYLAC® PA-757

VIW

材料特性

| 特性(Properties) | 测试方法(Test Method) | 测试条件(Test Condition) | 單位(Unit) | PA-757 |
|---|--------------------|------------------------|--|--------------------|
| 引發強度 Tensile Strength | ASTM D638 | 1/8",6 mm/min | Kg/cm ² (lb/in ²) | 480(6800) |
| 延伸章 Tensile Elongation | ASTM D638 | 1/8",6 mm/min | % | 20 |
| 學曲強度 Flexural Strength | ASTM D790 | 1/4",2.8 mm/min | Kg/cm²(lb/in²) | 820(11660) |
| 營費資程率 Flexural Modulus | ASTM D790 | 1/4",2.8 mm/min | Kg/cm²(lb/in²) | 27000(380000) |
| IZOD 衝擊強度 Izod Impact Strength | ASTM D256(Notched) | 1/4".23 ℃ 1/8".23 ℃ | Kg-cm/cm(ft-lb/in) Kg-cm/cm(ft-lb/in) | |
| 流動係數 Melt Flow Index | ASTM D1238 | 200°C ,5Kg | g/10min | 1.8 |
| 硬度 Hardness | ASTM D785 | 1/2** | R Scale | 116 |
| 比重 Specific Gravity | ASTM D792 | 23°C | * | 1.05 |
| 軟化點 Vicat Softening Temp | ASTM D1525 | 1/8",50 C /hr | *C(*F) | 105(221) |
| 熱變形溫度 H.D.T Annealed(85 (, 8hr) Unannealed | ASTM D648 | 1/4".120 C /br | (F) | 99(210) 88(190) |
| 燃烧率 Flammability | UL 94 | • | | 1/16"HB |

以上數據僅代表一般通用數據,不代表每一產品的規格值

若有任何疑問請洽產品推廣課 06 2665000, 06 2663000

圖 奇美實業股份有限公司

台灣省台南縣仁德鄉三甲村59-1號。 電 話:886-6-266-5000, 律 頁:886-6-266-5555-7

1/2(A-GHE)

物質安全資料表

VIW

1. 物品及廠商資料

產品名稱 Polylac *

PA-707 PA-757 PA-757N PA-717C PA-727 PA-747 PA-709

製造商

奇美實業股份有限公司

地址

台灣省台南縣仁德鄉三甲村 59-1 號

電話。

886-6-2663000 Ext. 1361 (產品推廣課)

緊急電話.

886-6-2663000 Ext. 1361 (產品推廣課)

侍真电话。

886-6-2667981

2. 成品辨識資料

單一產品或混合物

單一產品

化學名稱

Acrylonitrile-Butadiene-Styrene Copolymer

含量

>98% (添加樹≤2%)

化學式

(C3H3N, C4H6, C8H8)x

CAS No.

9003-56-9

危害性不鈍物

A

3. 危害性分類

健康危害效應

84

環境影響

Sec.

物理性及化學性意客

無無

特殊危害

4.急救措施 吸入

若吸入熔驗樹脂逸出之氣體,將患者移至通風處,立即遜醫。

皮膚接觸

若接觸到熔膠,以大量(肥皂)水沖洗患部及衣物,立即送醫。

吸睛接觸

若接觸到塑膠粒或塑膠粉末,以大量清水至少沖洗15分鐘。

若有不適,立即遂醫。

若接觸到高溫熔融樹脂透出之氣體,以大量清水至少沖洗 15 分鐘。

若有不適,立即送醫。

存食

催吐、以清水漱口,若有不適,立即送醫。

若接觸到塑膠粒或塑膠粉末,以清水沖洗。

5. 消防措施

適用減火劑

水、泡沫、乾粉

滅火時可能遭遇之特殊危害

1

特殊減火程序

移除可燃物

消防人員之特殊防護設備

使用俱氧式呼吸防護具

6. 洩漏處理方法

個人應注意事項

若整膠組或塑膠粉末殘留於地面上,可能會導致人員滑倒。

環境注意事項

為防止為額或魚類由排水系統中攝食,須徹底回收

清理方法

回收或廢棄

7. 安全處置與儲存方法

處置

操作處所須嚴禁煙火,做好整理整頓以避免約塵累積,為防止塵爆,空氣輸送管路、袋濾器及儲槽須加裝靜電消除裝置,並確實接地。袋濾器及儲槽須加裝靜電消除裝置,並確實接地。袋濾器之應材採

導電性材質。

储存

存放於陰凉處所,避免直射陽光、雨淋及急遽之温差。儲存處嚴禁煙火

奇美實業股份有限公司

台灣省台南縣仁德鄉三甲村59 1號, 實 結:886-6-266-5000, 律 庫:886-6-266-5555-7

2 /2(A-GHE)

8. 暴露預防措施

容許潔疫(TLV)

透風設備

個人防護設備

永定

排除診歷、煙及氣體時使用

呼吸防护 清洗成型機時使用助毒而具。

手部防護 接觸熔繆時使用皮手套。

職職防護 平時使用安全職鏡,清洗成型機時使用護日鏡

9. 物理及化學性質

物質狀態

形狀

Me

急味

对火點

自燃温度

爆炸界限

最小等火能量

最大場炸壓力

最大壓力上升速度

比重

溶解度

东白色聯粒

验状

亲白色

100

404 C

466 C 45 g/m

3.6 mJ

7 × 10° Pa

3. 2 × 10 Pa/S

1.03-1.10

無

10. 安定性及反應性

安定性

危害性分解物

燃烧能量

依一般操作及儲存程序码,安定性佳。

CO, HCN, AN, SM and NO

3.53 × 10 J/kg (8424 Kcal/kg)

11.毒性資料

刻激性.

分解後之些膠所產生的煙及蒸氣會刺激眼睛。

12. 生態資料

為防止被海洋生物或鳥類攝食, 服禁丟棄至海洋或水域。.

13. 廢棄物處理

通當之焚化爐燃烧或掩埋法。不通當之焚化爐可能會產生有毒氣體如 (X)、HCN、AN and SM.

14. 運送資料

未分類

15. 法規資料

16. 其他責料

CHI MEI CORPORATION

59-1 SAN CHIA JEN TE TAINAN HSIEN TAIWAN

Material Designation: PA-757 (+)

Product Description: Acrylonitrile Butadiene Styrene (ABS), designated "Polylac" furnished as pellets.

| Color | Min. Thick. (mm) | Flame Class | HWI | HAI | RTI Elec | RTI Imp | RTI Str | IEC GWIT | IEC GWFI |
|--|------------------|---|------------|----------|-------------|------------|------------|--|----------------|
| ALL | 1.5 | HB | 4 | -0 | 85 | 80 | 85 | | |
| | 3.0 | HB | 3 | 0 | 85 | 80 | 85 | 13 | 0.50 |
| CTI: 0 | IEC CTI: - | HVTR | : 1 | | D495 | : 1 | | IEC Ball Pro | ssure (°C): - |
| Dielectric Streng ISO Tensile Stre ISO Tensile Imp | ngth (MPa): - | Volume Re ISO Flexura ISO Izod In | d Strength | (MPa): - |): - | | | Dimensional Stability(%): ISO Heat De (*C): - ISO Charpy (kJ/m²): - | - effection |

(+) Optional prefix or suffix may be used to denote 0-0.5% acid scavengers.

Report Date: 6/23/1983

Underwriters Laboratories Inc®

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.



CORPORATION MEI

59-1 SAN CHIA, JEN TE, TAINAN COUNTY, TAIWAN R.O.C.

TEL: 886-6-266-5000, FAX: 886-6-266-5617

Data issued: May 25, 2005

We hereby certify that the follow Polylac ABS resin (list as follow) produced by Chi Mei Corporation

GP-Grade HF-Grade

PA-707, PA-757, PA-717C, PA-727, PA-747, PA-709, PA-756, PA-756S, PA-756H, PA-756B, PA-716, PA-746,

PA-746H, PA-737

Extrusion Grade

PA-747F, PA-747R, PA-747S, PA-709S

HH-Grade

PA-777B, PA-777D, PA-777E

Transparent Grade

PA-758

conforms to the requirement that no chemicals as following are added.

PBBEs (Poly Bromo Bisphenyl Ethers)

PBBs (Poly Bromo Bisphenyls)

3. Ozone Depleting Chemicals(CFC's&HCFC'S)

Chlorinated Paraffin (C10-C13)

Polyvinyl Chloride (PVC) 5.

Mercury(Hg) and its compounds,

Lead(Pb) and its compounds, 7.

Cadmium(Cd) and its compounds,

Chromium(Cr) and its compounds,

10. Arsenic(As) and its compounds,

11. Antimony(Sb) and its compounds,

12. Selenium(Se) and its compounds,

13. Barium(Ba) and its compounds,

14. Chromium(Cr) VI and its compounds

15. Organic tin compounds

Polychlorinated Biphenyls(PCB's) and Terphenyls(PCT's)

17. Poly naphthalenes

18. Azo compounds

19. Polychlorinated biphenyl

20. Polychlorinated naphthalene

21. Asbestos

22. Phthalates

With regard to composition of above grade, they can comply with the Directives of RoHS (2002/95/EC), 2003/11/EC, TCO'99, Blue Angel and SONY (SS-00259)

Sincerely Yours,

Eric Chou

Manager

Department of Product Strategy & Service

This statement is based on our current level of knowledge and covers the above resins as supplied by CHI MEI CORPORATION at the date of issue. Since conditions of use are outside CHI MEI CORPORATION's control, CHI MEI CORPORATION makes no warranties, express or implied, and assumes no liability in connection with any use of this information.



Aliner Industries, Inc.

Material Certificate KUON CHEN HARDWARE CO..LTD

| Material | FREE CUTTI BRASS ROD | Allow r | no. C 3604 B | D | | |
|----------------------------|-------------------------|----------------|-------------------|--|--|--|
| Chemical Test | ing | | | | | |
| Testing metho | d X Ray Sp | ectrogram / | | | | |
| Testing Equipme | nt Vacuum X | Ray Spect | rograph | | | |
| Compounds | Standa | rd content(%) | 5 | Sample content (%) | | |
| Cu | 57.0~61. | 0 | 57.88 | | | |
| Zn | REMA1NDE | R | REMAINDE | R | | |
| Fe | <0.5 | | | | | |
| Pb | 1.8~3.7 | | 3.18 | | | |
| Other | <1.2 | | 0.7 | 7 | | |
| Mechanical Te | sting | | | | | |
| Testing method | Hydrau | alic pulling | test | | | |
| Equipment used | Computer uni | versal test | ing machine | Electronic hardness testing machine | | |
| Physical characteristic | Tensile-strength | Yield strength | Elongation | Hardness | | |
| Required reading | Kg/mm² | Kg/mm² | % | HRB | | |
| Actual reading | Kg/mm² | Kg/mm² | % | HRB | | |
| Description | | E P | 上程部 ENGINEERIN | C TAIL OF THE PARTY OF THE PART | | |

BRUSHWELLMAN

ENGINEERED MATERIALS

Shoemakersville Road, Shoemakersville, PA 19555 Phone: 610-562-2211 ; Fax: 610-562-6610

Advance Technical Products Limited 1003 Pacific Trade Centre 2 Kai Hing Road, Kowloon Bay KOWLOON

KOWLOON HONG KONG Page 1 of 2

Material Certificate

Date

05/02/2003

Purchase order Item/date

S81249 / 04/02/2003

Delivory rem/date

80196127 900001 / 05/09/2003

Order Item/date

117399 000010 / 04/03/2003

Customer nbr Customer part nbr

ZQ000

Customer spic

BWJ-RW5.00-2

Comp

40

Our Material: K549121100 ROD CD

M25 H

.15748 X

Typo

TM 0310 -R

Brush Wellman testing for chemical composition (by Optical Emission Spectrometry), is conducted at our Elmore, OH Laboratories. Testing of mechcanical, or physical properties is conducted at Laboratories which are accredited by American Association for Laboratory Accreditation.

Roy

This material was inspected and tested for conformity as required in accordance with the noted part, specification, and revision number. The quantitative test data obtained from these tests are available for review by the buyer.

Batch 0000319331 / Quantity 408 LBS

| Characteristic | Unit | Value | Specifica Lower | tion Limits Upper |
|---------------------|------------|--------------|--------------------|----------------------|
| CDA (UNS) Alloy | - | C17300 | | |
| ASTM Temper | - | TD04 | | |
| Brush Spec Nbr. | 38 | BWJ-RW5. | 00-2 | LAR BE ALL |
| Dimensional Attribu | ton | | , | 如林枝股份市及 中世 # |
| Diameter | - | 0.15748 | E | 渝(松 發 草)多) |
| Diameter Plus | 873 | 0.00059 | , | 02 0020000 300 |
| Diameter Minus | 5.00 | 0.00059 | | 老林·林371 4:30 年 |
| Longth | - | 98.42525 | | |
| Length Plus | | 0.25000 | | |
| Longth Minus | 12 | 0.00000 | | |
| Mechanical/Physical | Properties | | | |
| Grain Size | mm | 0.015 | | 0.050 |
| Tensile | kgf | 71-0 72-0 | 67.0 | 77.0 |
| Yield | kgf | 58.0 61.0 | 52.0 | 74.0 |
| Elongation | k | 15.0 | 10.0 | |
| Hardness Scale | 183 | HR3 OT | | |
| Hardness Value | | 79.0 80.0 | 77.0 | 93.0 |

The material supplied with this certification has not been heat treated. The following properties were achieved in Brush Wellman's laboratory. They represent what you may expect after heat treating the material, using the time and temperatures shown.

| RI | Temper | - | HT | | |
|----|-----------------|-----|------|------|------|
| R1 | Heat Treat Time | hrs | 2.00 | 2.00 | 2.00 |
| R1 | Heat Treat Temp | °C | 316 | 316 | 316 |

ENGINEERED MATERIALS

| Advance Technical 1003 Pacific Trad | e Centre | 8 (| ivery item/date 0196127 90 | 0001 / | Page 2 of | 2 |
|--|------------|----------------|-------------------------------|--------|--------------|---|
| 2 Kai Hing Road, KOWLOON | Kowloon Ba | ay 05 | 5/09/2003 | | | |
| R1 Tensile | kgf | 137.0 138.0 | 130.0 | 158.0 | | |
| Rl Yield | kgf | 129.0 130.0 | 116.0 | | | |
| R1 Elongation | * | 2.0 | 2.0 | | | |
| R1 Hardness Scale | - | HR3 ON | | | | |
| RI Hardness Value | | 62.0 | 53.5 | 63.0 | | |
| Chemistry Composition | n | | | | | |
| Beryllium | 3 | 1.83 | 1.80 | 2.00 | | |
| Ni+Co | 4 | 0.25 | | 0.35 | | |
| Ni+Co+Fe | ¥ | 0.28 | | 0.60 | | |
| Silicon | v | 0.04 | | 0.15 | | |
| Aluminum | ¥ | 0.02 | | 0.10 | | |
| Load | * | 0.34 | 0.20 | 0.40 | | |
| Alloy Balance | | COPPER | | | | |
| Lot Identification | | | | | | |
| Heat Number | 21 | 28176 | | | | |
| Piece Lot Number | 2 | 11739911 | | | | |
| | | | | | | |

Quality Representative

Jack Catchouse

TM0310-R



Properties of various fluoropolymers

| | Properties | Unit | ASTM test method | PTFE |
|------------|--|------------------------|--|------------|
| FILE | Melting point | | | 327 |
| 포노 | Specific gravity | | D792 | 214-220 |
| | Tensile strength | MPa | D638 | 13.7-34.3 |
| | | [kgf/cm] | | 1140-350 |
| | Elongation | 95 | D638. | 200-400 |
| | Compressive strength | MFa | D695 | 11.8 |
| | | [kgf/cm] | | 1120 |
| 404 | Impact strength (Aixot) | J/m | D526A | 160 |
| 2 | | kgf-em/eml | Name of the last o | 16.3 |
| 5 | Hardness (Rockwell) | | D785 | |
| MEGHANICAL | Hardness (Shore) | 200- | D2340 | D50-55 |
| 芝 | Bending elasticity | GPa [10]kgf/em/l | D790 | 0.55 |
| | | GPa | | 0.40-0.55 |
| | Tensile Strength | 110'kgf/cm7 | D638 | 14.1-5.6 |
| | | 130 Kgar Char | 0.69MPa | 14.1-51.01 |
| | Coefficient of dynamic friction | | 7/kgf/cm* | 0.10 |
| | Cochemic of dynamic fraction | | 3m/min | P54.55 |
| | | W/(m-K) | | 0.25 |
| | Thermal conductivity | [kcal/(m·hr·℃)] | C177 | (0.22) |
| | 2 2 2 | J/(T ·g) | - | 1.05 |
| A | Specific heat | leal/(C-g) | - | 30.2257 |
| THERMAL | Coefficient of linear expansion | 10°°/7C | D696 | 10 |
| Ħ | Ball pressure | 7 | | 180 |
| - | • 1.81MPa 18.5kgf/cm* | T | D648 | 55 |
| | 1.81MPa [18.5kgf/cm] 0.45MPa [4.6kgf/cm] | t | - | 121 |
| | Max. Service Temperature | τ | Unloaded | 260 |
| | Volumetric resistance ratio | Ω·em | D257 (50% RH.235) | >10** |
| | Dielectric breakdown strength (Short term) | MV/m | D149 | 19 |
| | aneaectric oreated with strength to their to the | kV/mm(3.2mm thickness) | 1773.7 | |
| | 90Hz | pF/m | D150 | <18.6 |
| 3 | 18 | | | [<21] |
| FLECTRICAL | Decettic cutstant 10,Hz | pF/m | D150 | < 18.6 |
| 3 | ======================================= | 1420/1920/ | | [<2.1] |
| 5 | ₹ 10°Hz | pF/m | D150 | < 18.6 |
| | | | | <21 |
| | Polytical 10,Hz | | D150 | < 0.0002 |
| | De and 10°Hz | | D150 D150 | < 0.0002 |
| | | | D495 | >300 |
| | Anti arcing property Water absorption(24h) | 36C | D570 | 0.00 |
| | 32mm thickness combustibility | -00 | (UL/94) | V-0 |
| | Oxygen index | | D2863 | >95 |
| 541 | Effect of direct sunlight | 15DU570 | | No |
| E | Effect of weak acid | 148 | D543 | No |
| DURABILITY | Effect of strong acid | 5工程部 | D543 | No |
| 5 | Effect of weak alkali | | D543 | No |
| | Effect of strong alkali | ENGINEERING / | D543 | No |
| | Effect of solvent alkali | 中国 明明 | 10543 | No |

SPECIFICATION FOR APPROVAI

DOCUMENT: A30178B001

STYLE:

200°C 30V

RG-178B/U

SIZE:

7/0.102 SCCS

RECOGNIZED:

WONDERFUL WIRE CABLE CO.,LTD

OFFICE: 72WU KONG 6TH ROAD, FACTORY: 17 PEI YUAN ROAD,

WU KU IND. DISTRICT TAIPEI HSIEN, TAIWAN

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

CHUNG-LI IND. PARK

TAIWAN, R.O.C.

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

SPECIFICATION

| STYLE | 200°C 30V | DOCUN | MENT NO : |
|--------------|-------------------|------------------|------------------------------------|
| 31111 | COAXIAL | A30178 | B001 |
| SIZE | RG-178B/U | ESTAB 2000/06 | LISHED DATE: /29 |
| STANDAR | D : MIL-C-17 | | |
| | Size | AWG | 30 |
| Conductor | 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 |
| | Material | (2222 | FEP |
| | Color | | Clear |
| Braid | Material | | Silver-Coated Copper |
| Dialu | Construction | mm | 16 / 3 / 0.10 |
| | Coverage | % | 95 |
| | Average Thickness | mm | 0.25 |
| Jacket | Diameter | mm | 1.80 ±0.05 |
| | Material | | FEP |
| | Color | | Brown |
| Marking | M17/93-RG178B/U W | ONDERFUL | y y |
| Drawing | | | |
| AK001/210X29 | 27/1.0 | | PAGE · 1 |

AK001/210X297/1.0

EDITION: 1.0

MAKER:

CONFIRM:

PAGE: 1

REVISED DATE : APPROVAL :

WONDERFUL WIRE CABLE CO., LTD

SPECIFICATION

| Electrical | & Physic | cal F | Properties | | | | | | |
|-----------------------|----------|------------------|-------------|-----------------------------|-------------------------------|-----------|----------|-------|--|
| Item | | | | | RG-178B/U | | | | |
| Rating Temp Voltage | | | | | 200°C | 30V | | | |
| Conductor | Resista | nce | | | 838.0 | OHM/K | M/20°C 1 | MAX. | |
| Insulation Resistance | | | | | 100 M | IEGA OHI | M/KM MI | N. | |
| Dielectric Strength | | | | | AC 1. | 0 KV/Min | ute | | |
| Spark Test | | | | | 0.5 K | V | | | |
| Llungard | | Ten | sile Streng | gth | 2500 1 | PSI MIN.(| 1.76 Kg/ | m m²) | |
| Insulation | Unaged | Elongation | | 200% MIN. | | | | | |
| | Aged | Tensile Strength | | UNAGED MIN.75%(168HRS×232°C | | | | | |
| | | Elongation | | UNAGED MIN.75%(168HRS×232°C | | | | | |
| | T.I. 1 | Tensile Strength | | | 2500 PSI MIN.(1.76 Kg/ m m²) | | | | |
| Jacket | Unaged | Elongation | | 200% MIN. | | | | | |
| | A d | Tensile Strength | | UNAGED MIN.75%(168HRS×232°C | | | | | |
| | Aged | Elongation | | | UNAGED MIN.75%(168HRS×232°C) | | | | |
| Nom. Imp | edance | | | | 50 Ohms | | | | |
| VSWR | | | | | MAX. 1.3 at 0.4G~3GHz | | | | |
| Nom. Vel. of Prop. | | | | | 69.5% | | | | |
| Flame Test | | | | | VW-1 OK | | | | |
| Attenuatio | on 50M | Hz | 100MHz | 40 | 0MHz | 900MHz | 1.8GHz | 3GHz | |
| (dB/100m | 1970 | 4 | 45.9 | (| 91.8 | 139.4 | 207.5 | 308.2 | |
| A TCOOL /0103 | | | | | | | | | |

AK001/210X297/1.0

PAGE: 2

EDITION: 1.0

REVISED DATE:

MAKER:

CONFIRM:

APPROVAL:

RoHS REPORT INDEX-RFA-02-C2M2-03

| | NAME | 供應商 | RoHS report |
|-----|--------------------------------|------------------------------|----------------|
| 1 | ANTENNA SHELL/HINGE/BASE-PA757 | CHI MEI CORPORATION | KE/2005/51620 |
| 2 | CONNECTOR | | |
| 2-1 | 铜合金 C3604 | 元祥金屬工業股份有限公司 | CE/2005/53261A |
| 2-2 | BERYLLIOM COPPER C17300 M25 | TAI MAO TECHNOLOGY CO., LTD. | CE/2005/84740 |
| 2-3 | PTFE-鐵弗龍 | 宏庫貿易有限公司 | ET94O-09-035 |
| 3 | CABLE-RG178 | WONDERFUL HI-TECH CO., LTD. | CE/2005/84353 |



Chemical Laboratory - Kao., SGS Taiwan Ltd.

TEST REPORT

REPORT NO.KE/2005/51620

DATE: 2005/5/30 PAGE: 1 OF 2

THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED AND IDENTIFIED BY THE CLIENT AS:

CLIENT

: CHI MEI CORPORATION ...

PRODUCT DESCRIPTION

: ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER

(AS ATTACHED SAMPLE CARD).

STYLE/ITEM NO.

: POLYLAC®PA-757

TESTING DATE

: 2005/05/24 TO 2005/5/30 .

SAMPLE RECEIVED

: 2005/05/24.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

| TEST ITEM(S) | UNIT | METHOD | DET. LMT | RESULT |
|------------------------------------|------|--|-------------|--------|
| CADMIUM | ppm | ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT EN1122, METHOD B:2001. | 2 | n.d. |
| CHROMIUM VI | ppm | ANALYSIS BY US EPA 7196A WITH ADVANCE TREATMENT US EPA 3060A. | 2 | n.d. |
| MERCURY | ppm | ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT US EPA 3052 | 2 | n.d. |
| LEAD | ppm | ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT US EPA 3050B | 2 | n.d. |
| PBBs (Polybrominated biphenyls) | *** | | *** | 1000 |
| BROMOBIPHENYL | % | | 0.0005 | n.d. |
| DIBROMOBIPHENYL | % | 1 | 0.0005 | n.d. |
| TRIBROMOBIPHENYL | % | WITH REFERENCE TO USEPA3540C OR | 0.0005 | n.d. |
| TETRABROMOBIPHENYL | % | USEPA3550C. ANALYSIS WAS | 0.0005 | n.d. |
| PENTABROMOBIPHENYL | % | PERFORMED BY HPLC/DAD, LC/MS OR | 0.0005 | n.d. |
| HEXABROMOBIPHENYL | % | GC/MS. (PROHIBITED BY 2002/95/EC | 0.0005 | n.d. |
| HEPTABROMOBIPHENYL | % | (ROHS), 83/264/EEC, AND 76/769/EEC) | 0.0005 | n.d. |
| OCTABROMOBIPHENYL | % | (1,0110), 00201122311110 10110012031 | 0.0005 | n.d. |
| NONABROMOBIPHENYL | % | | 0.0005 | n.d. |
| DECABROMOBIPHENYL | % | | 0.0005 | n.d. |

George Huang / Supervisor Sign for and on behalf of SGS Taiwan Limited

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Chemical Laboratory - Kao, SGS Taiwan Ltd.

TEST REPORT

REPORT NO.KE/2005/51620

DATE: 2005/5/30 PAGE: 2 OF 2

| TEST ITEM(S) | UNIT | METHOD | DET. LMT | RESULT | | |
|---|------|---|-------------|--------|--|--|
| PBDEs (Polybrominated biphenyl ethers) | See | | *** | | | |
| MONOBROMOBIPHENYL ETHER | % | WITH REFERENCE TO USEPA3540C OR USEPA3550C. ANALYSIS WAS PERFORMED BY HPLC/DAD, LC/MS OR GC/MS. (PROHIBITED BY 2002/95/EC (ROHS), 83/264/EEC, AND 76/769/EEC) | 0.0005 | n.d. | | |
| DIBROMOBIPHENYL ETHER | % | | 0.0005 | n.d. | | |
| TRIBROMOBIPHENYL ETHER | % | | 0.0005 | n.d. | | |
| TETRABROMOBIPHENYL ETHER | % | | 0.0005 | n.d. | | |
| PENTABROMOBIPHENYL ETHER | % | | 0.0005 | n.d. | | |
| HEXABROMOBIPHENYL ETHER | % | | 0.0005 | n.d. | | |
| HEPTABROMOBIPHENYL ETHER | % | | 0.0005 | n.d. | | |
| OCTABROMOBIPHENYL ETHER | % | | 0.0005 | n.d. | | |
| NONABROMOBIPHENYL ETHER | % | | 0.0005 | n.d. | | |
| DECABROMOBIPHENYL ETHER | % | | 0.0005 | n.d. | | |

NOTE: n.d. = not detected.

<END>



元祥金屬工獎股份育职公司 1500章化輕影化市影大路175號

報告號碼: CE/2005/53261A

2005/05/24

以下测試樣品乃供應廠商所提供及確認:

成品石铺

编合金 C3604

次件日期

2005/05/17

仍胜日期

2005/05/17 TO 2005/05/24

测試結果

到区部位 100 1

: 四色金屬株(謂君師助件更片)

| WH-KD | EVA | 额試方生 | 伯斯頓展伍 | 結果 | |
|-------|------|---|-------|---------|--|
| 张宫项目: | 幫位 | | | NO.1 | |
| 一種经 | bba | 低限US EPA 3050A万法,用UV-715位 分析 | 2 | N.D | |
| į5. | btar | 依照 EM1122 方法B: 2001或其他整 消化方法。用慈宠舞士能领等于契时 允赔债(ICP-AES) 並分析 | 2. | 20 2 | |
| (大 | ppn | 原單 US EPA 3052 方法或其化股所 化方法,用极轭箱含量频原于裂射光 譜儀(ICP-AES)度分析 | 5 | M.D. | |
| * | ppn | 依原 US EPA 3050B 方法或其他版 场化方法。用底理确合意理等子被时 光譜硬(ICP-AES)似分析 | 2 | 35039.0 | |

居註 (1) N D = Not detected (<MDL) / 主輸出(低於資源臺限值)

(2) ppm = mg/kg / 百萬分之一

(3) UDL= Method Detection Limit(資源極限倍)

Operation Manager Signed for and on behalf of

SGS TAWAN LTD.

The sensert of this ADF for it is appropriate with the change issued report for reference only. This Test Report cannot be improduced except within a unfold providing written permission of the Despary.



TAI MAO TECHNOLOGY CO., LTD.

Report No. : CE/2005/84740

NO. 12, ALLEY 30, LANE 371, HUACHENG ROAD,

Date

: 2005/08/26

SHINJUANG CITY, TAIPEI HSIEN, TAIWAN

Page:

:10[2

The following merchandise was (were) submitted and identified by the client as:

Type of Product

BERYLLIOM COPPER

Style/Item No

C17300 M25

Sample Received

2005/8/19

Testing Date

2005/8/19 TO 2005/08/26

Test Result

PART NAME NO.1

COPPER COLORED METAL WIRE (PLEASE REFER

TO THE PHOTO ATTACHED!

| Test Item (s): | Unit | Method | MDL | Result No.1 |
|----------------|------|--|-----|----------------|
| | | | | |
| Cadmium (Cd) | ppm | ICP-AES after reference to EN 1122, method B:2001 or other acid digestion. | 2 | N.D. |
| Mercury (Hg) | ppm | ICP-AES after reference to US EPA 3052 or other acid digestion. | 2 | N.D. |
| Lead (Pb) | ppm | ICP-AES after reference to US EPA 3050B or other acid digestion. | 2 | 3351.6 |

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

[3] MDL = Method Detection Limit

Daniel Yeh, M.R. / Operation Manager "Signed for and on behalf of

SGS TAIWAN LTD.

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TAI MAO TECHNOLOGY CO., LTD. NO. 12, ALLEY 30, LANE 371, HUACHENG ROAD, SHINJUANG CITY, TAIPEI HSIEN, TAIWAN

Report No. : CE/2005/84740

Date : 2005/08/26

Page : 2 of 2





地址:333 驻到旅最山鄉州各村文明路 29 也 8 处

二 机 44 號 : ET940-09-035

電報:(03) 328-0026 M 291 - 298

事情

全3首/第1首

#A:(03) 327-6147

测試報告

委託機構:宏澤貿易有限公司

地址: 台北市大安區青田期 8-1 號 1 樓

承辦日:94年09月18日 **机告日:94 本 09 月 27 日**

华汉克赛镇: 1. 本效会運動性樣品負責。

2. 身種本で心荷恵・本顧告内容不得以住村方式後職獲守使用 (全部複印絵介)

财图法人台灣電子檢驗中心 環境保護與工業安全衛生部

實驗宣主管

经理

備註:

1.N.D.意即為預測不到

2.测铽儀器中英文對照:

- (1) ICP-OES 成應耦合電景原子發射光譜儀
- (2) UV-VIS 分光光度计
- (3) GC-MS 氧相層析質譜儀

測試結果:-請見下頁-

財團 台灣電子抬級中心 № А. плетоностическия реен. **地址:333 桃湖旅藏山鲱燕各村文明路 29 巷 8 號**

電報:(03) 328-0026 株 291 - 298

##:(03) 327-6147

測試報告

委託機構:宏康貿易有限公司

地址: 台北市大安笛青田街 8-1 號 1 樓

客标:

二根 編號: ET940-09-035

全3页/第2页

永m日:94 年 09 月 16 日 報告日:94年09月27日

◆注意事項:

1. 本報仓僅對該據品負責。

2. 府颐本介心河意·本服告所容不得以住何方式複雜複印使用·《全部複印绘外》

NO.1

樣品編號

ET94O-09-035

樣品名稱

PTFE

樣品型號

| 測試項目 儀器 設備 | | 全考测试 | 测试结果 | (單位:mg /kg; ppm 方法 偵測極限 | |
|---------------|---------|--|------|-------------------------------|--|
| | | 方法 | NO.1 | | |
| 50 | ICP-OES | US EPA 3051A & 6010B | N.D. | 0.6 | |
| \$24 | ICP-OES | US EPA 3051A & 6010B | N.D. | 0.6 | |
| 汞 | ICP-OES | US EPA 3051A & 6010B | N.D. | 1.0 | |
| 六價格 | UV-VIS | US EPA 3060A & 7196A | N.D. | 0.5 | |
| 多溴群苯 | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 | |
| 多溴二膦醚 | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 | |

SGS-PTFE ET94O-09-035 (for 材質證明-鐵弗龍)

財團 台灣電子檢驗中心 № А. плитонея типосентя, энен **地址:333 机圆柱盖山鲱牌各村文明路 29 巷 8 赋**

€16: (03) 328-0025 # 291 - 298

(# A : (03) 327-6147

測試報告

委託機構:宏華賀易有限公司

此班: 台北市大安医青田街 S-1 號 1 權

二 根 典 姓: ET940-09-035

B 15:

长鮮日:94 A 09 H 16 日

全3页/果3页

報告日:94年09月27日

华洪克罗城:

1. 本報告預計程樣品表章。

2. 持续本件心同意、本服务所容不得以性何方式複雜複印造样。(全部複印绘析)

ET940-09-035



WONDERFUL HI-TECH CO., LTD.

Report No. : CE/2005/84353

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND, PARK, TAOYUAN Date

: 2005/08/25

TAIWAN, R. O. C.

Page

: 1 of 4

The following merchandise was (were) submitted and identified by the client as :

Type of Product

: COAXIAL CABLE

Style/Item No

RG 178 B/U

Sample Received

: 2005/08/18

Testing Date

2005/08/18 TO 2005/08/25

Test Result

: - Please see the next page -

Signed for and on behalf of

SGS TAIWAN LTD.



WONDERFUL HI-TECH CO., LTD.

Report No. : CE/2005/84353

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND, PARK, TAOYUAN Date

: 2005/08/25

TAIWAN, R. O. C.

Page

: 2 of 4

Test Result

PART NAME NO.1

MIXED TRANSPARENT BROWN FEP JACKET AND TRANSPARENT INSULATION (PLEASE REFER TO

THE PHOTO ATTACHED)

| Total Italian (a) | TY 24 | Unit Method | MDL | Result |
|--|-------|---|--------|--------|
| Test Item (s): | Unit | | | No.1 |
| Monobromobiphenyl | % | - | 0.0005 | N.D. |
| Dibromobiphenyl | % | | 0.0005 | N.D. |
| Tribromobiphenyl | % | 1 1 | 0.0005 | N.D. |
| Tetrabromobiphenyl | 7% | With reference to | 0.0005 | N.D. |
| Pentabromobiphenyl | % | USEPA3540C or | 0.0005 | N.D. |
| Hexabromobiphenyl | 96 | USEPA3550C, Analysis was performed by HPLC/DAD, | 0.0005 | N.D. |
| Heptabromobiphenyl | % | LC/MS or GC/MS. | 0.0005 | N.D. |
| Octabromobiphenyl | % | (prohibited by 2002/95/EC | 0.0005 | N.D. |
| Nonabromobiphenyl | % | (RoHS), 83/264/EEC, and | 0.0005 | N.D. |
| Decabromobiphenyl | 96 | 76/769/EEC) | 0.0005 | N.D. |
| Total PBBs (Polybrominated biphenyls)/Sum of above | % | A Comment of the Comment | .= | N.D. |
| Monobromobiphenyl ether | % | | 0.0005 | N.D. |
| Dibromobiphenyl ether | % | | 0.0005 | N.D. |
| Tribromobiphenyl ether | 9% | 1 1 | 0.0005 | N.D. |
| Tetrabromobiphenyl ether | 96 | With reference to | 0.0005 | N.D. |
| Pentabromobiphenyl ether | % | USEPA3540C or | 0.0005 | N.D. |
| Hexabromobiphenyl ether | % | USEPA3550C. Analysis was performed by HPLC/DAD. | 0.0005 | N.D. |
| Heptabromobiphenyl ether | % | LC/MS or GC/MS. | 0.0005 | N.D. |
| Octabromobiphenyl ether | 96 | (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC) | 0,0005 | N.D. |
| Nonabromobiphenyl ether | % | | 0.0005 | N.D. |
| Decabromobiphenyl ether | .96 | | 0.0005 | N.D. |
| Total PBBEs(PBDEs) (Polybrominated biphenyl ethers!/Sum of above | 1.96 | | - | N.D. |



WONDERFUL HI-TECH CO., LTD.

Report No. : CE/2005/84353

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND, PARK, TAOYUAN Date

: 2005/08/25

TAIWAN, R. O. C.

Page. : 3 of 4

| Test Item (s): | Unit | Method | MDL | Result No.1 |
|----------------|------|--|-----|----------------|
| | | | | |
| Cadmium (Cd) | ppm | ICP-AES after reference to EN 1122, method B:2001 or other acid digestion. | 2 | N.D. |
| Mercury (Hg) | ppm | ICP-AES after reference to US EPA 3052 or other acid digestion. | 2 | N.D. |
| Lead (Pb) | ppm | ICP-AES after reference to US EPA 3050B or other acid digestion. | 2 | N.D. |

- NOTE: (1) N.D. = Not detected (<MDL)
 - (2) ppm = mg/kg
 - (3) MDL = Method Detection Limit
 - (4) " " = No Regulation



WONDERFUL HI-TECH CO., LTD.

Report No. : CE/2005/84353

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND, PARK, TAOYUAN Date

: 2005/08/25

TAIWAN, R. O. C.

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