

文件編號NO. A-841-00017

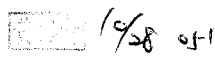
桓宇電子股份有限公司
Mega Device Electronics Inc.



承 認 書

3751.8

APPROVAL SHEET

CUSTOMER:	兆赫電子股份有限公司
AE PART NO.:	RFA-02-L4M3
DESCRIPTION:	2.4-3dBi
CUSTOMER PART NO.:	841001000103
DRAWING NO:	RFA-02-L4M3.DWG
APPROVAL BY:	 94.10.28 蔡裕恭
DATE:	2004-10-28

Head Office

114 台北市內湖區瑞光路 586 號 4 樓
4, NO. 586, Rui Guang Road, Nei-Hu,
Taipei, Taiwan. Post Code: 114

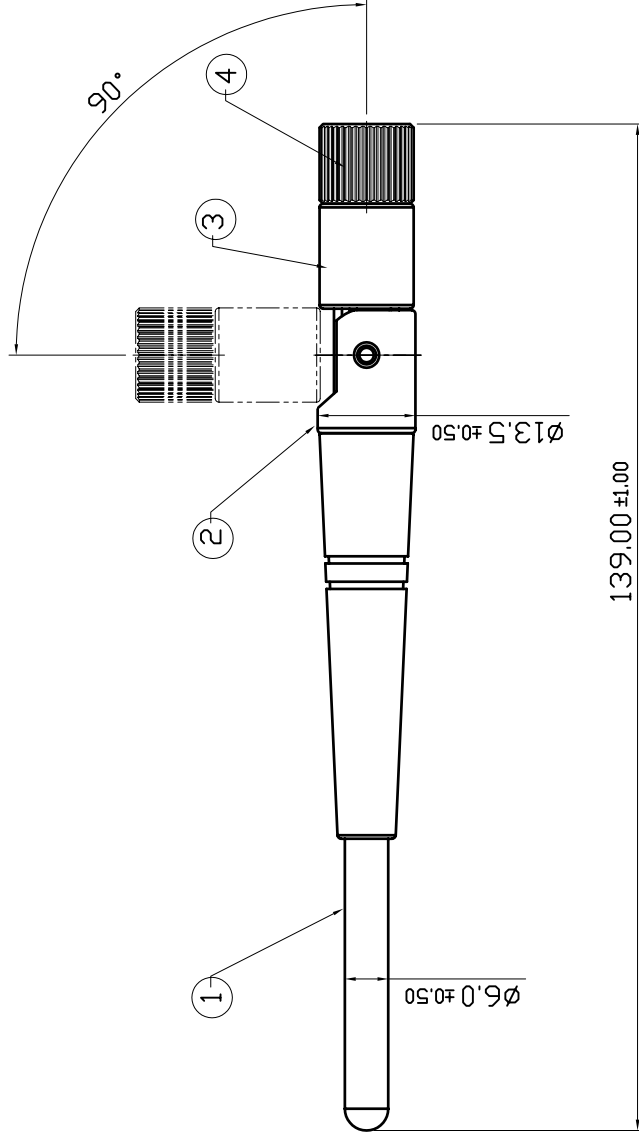
TEL: +886-2-8797-8608
FAX: +886-2-8797-2966
<http://www.megadevice.com.tw>

Shenzhen Office

廣東省深圳市福民路 3 號嘉和閣 21D
郵編：518033
Room 21D Block, Jiahe, No. 3, Fuming
Road, Futian District, Shenzhen, PRC
Post Code: 518033

TEL: +86-755-8328-9529
FAX: +86-755-8328-9651

1	2	3	4	5
NO.	NAME	FINISH	MAT'L	MEMO
1.	ANT. Shell	BLACK	TPU	
2.	Base	BLACK	ABS	
3.	Hinge	BLACK	ABS	
4.	RP SMA PLUG	BLACK	BRASS	



ARISTOTLE ENTERPRISES INC.		亞馬龍企業股份有限公司	
PROJECTION	UNITS	mm	TITLE
	SCALE	1/1	RFA-02-L4M3
	PAPER	A4	DWG NO.
APPD.	CHKD.	DESIGN	RFA-02-L4M3.DWG
REV	ECN	NAME	DATE
		J.W.Lee	04/08/01
4.			
3.			
2.			
1.			
SHEET	1/1		REV.
			A

RFA-02-L4M3

Specification

Frequency Range	2.4~3dBi
Impedance	50 Ohms nominal
Antenna Gain	3 dBi
Polarization	Vertical



泛用級 ABS, POLYLAC[®] PA-757

VIW

材料特性

特性(Properties)	測試方法(Test Method)	測試條件(Test Condition)	單位(Unit)	PA-757
引張強度 Tensile Strength	ASTM D638	1/8", 6 mm/min	Kg/cm ² (lb/in ²)	480(6800)
延伸率 Tensile Elongation	ASTM D638	1/8", 6 mm/min	%	20
彎曲強度 Flexural Strength	ASTM D790	1/4", 2.8 mm/min	Kg/cm ² (lb/in ²)	820(11660)
彎曲彈性率 Flexural Modulus	ASTM D790	1/4", 2.8 mm/min	Kg/cm ² (lb/in ²)	27000(380000)
IZOD 衝擊強度 Izod Impact Strength	ASTM D256(Notched)	1/4", 23°C 1/8", 23°C	Kg-cm/cm(ft-lb/in) Kg-cm/cm(ft-lb/in)	18(3.3) 20(3.7)
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°C, 8hr) Unannealed	ASTM D648	1/4", 120°C/hr	°C (°F)	99(210) 88(190)
燃燒率 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



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，傳真：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)							
傳真電話	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% (添加劑≤2%)
化學式	(C ₃ H ₃ N, C ₄ H ₆ , C ₈ H ₈) _x
CAS No.	9003-56-9
危害性不純物	無

3. 危害性分類

健康危害效應	無
環境影響	無
物理性及化學性危害	無
特殊危害	無

4. 急救措施

吸入	若吸入熔融樹脂逸出之氣體，將患者移至通風處，立即送醫。
皮膚接觸	若接觸到塑膠粒或塑膠粉末，以清水沖洗。 若接觸到熔膠，以大量(肥皂)水沖洗患部及衣物，立即送醫。
眼睛接觸	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，立即送醫。 若接觸到高溫熔融樹脂逸出之氣體，以大量清水至少沖洗15分鐘。 若有不適，立即送醫。
吞食	催吐，以清水漱口，若有不適，立即送醫。

5. 消防措施

適用滅火劑	水、泡沫、乾粉
滅火時可能遭遇之特殊危害	無
特殊滅火程序	移除可燃物
消防人員之特殊防護設備	使用供氧式呼吸防護具

6. 洩漏處理方法

個人應注意事項	若塑膠粒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	為防止鳥類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粉塵累積。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。袋濾器之濾材採導電性材質。
儲存	存放於陰涼處所，避免直射陽光、雨淋及急遽之溫差。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. 電話: 886-6-266-5000, 傳真: 886-6-266-5555~7

2/2(A-GHE)

8. 暴露預防措施

容許濃度(TLV)
通風設備
個人防護設備

未定
排除粉塵、煙及氣體時使用
呼吸防護 清洗成型機時使用防毒面具。
手部防護 接觸熔膠時使用皮手套。
眼睛防護 平時使用安全眼鏡，清洗成型機時使用護目鏡

9. 物理及化學性質

物質狀態	米白色膠粒
形狀	粒狀
顏色	米白色
氣味	無
閃火點	404 °C
自燃溫度	466 °C
爆炸界限	45 g/m ³
最小著火能量	3.6 mJ
最大爆炸壓力	7 × 10 ⁵ Pa
最大壓力上升速度	3.2 × 10 ⁷ Pa/S
比重	1.03-1.10
溶解度	無

10. 安定性及反應性

安定性
危害性分解物
燃燒能量

依一般操作及儲存程序時，安定性佳。
CO, HCN, AN, SM and NO.
3.53 × 10⁷ J/kg (8424 Kcal/kg)

11. 毒性資料

刺激性

分解後之塑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，嚴禁丟棄至海洋或水域。

13. 廢棄物處理

適當之焚化爐燃燒或掩埋法。不適當之焚化爐可能會產生有毒氣體如 CO, HCN, AN and SM.

14. 運送資料

未分類

15. 法規資料

無

16. 其他資料

無

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	-	-
CTI: 0	IEC CTI: -	HVTR: 1			D495: 1			IEC Ball Pressure (°C): -	
Dielectric Strength (kV/mm): -		Volume Resistivity (10⁹ohm-cm): -						Dimensional Stability(%): -	
ISO Tensile Strength (MPa): -		ISO Flexural Strength (MPa): -						ISO Heat Deflection (°C): -	
ISO Tensile Impact (kJ/m²): -		ISO Izod Impact (kJ/m²): -						ISO Charpy Impact (kJ/m²): -	

(+) 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.



CHI MEI CORPORATION

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	PA-707, PA-757, PA-717C, PA-727, PA-747, PA-709,
HF-Grade	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.

1. PBBEs (Poly Bromo Bisphenyl Ethers)
2. PBBs (Poly Bromo Bisphenyls)
3. Ozone Depleting Chemicals(CFC's&HCFC'S)
4. Chlorinated Paraffin (C10-C13)
5. Polyvinyl Chloride (PVC)
6. Mercury(Hg) and its compounds,
7. Lead(Pb) and its compounds,
8. Cadmium(Cd) and its compounds,
9. 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
16. 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.

華寶樹脂化學工廠股份有限公司

HWA PAO RESINES CHEMICAL CO., LTD

TPU 檢驗報告表

TPU REPORT

客
CUSTOMER

戶：亞瓊

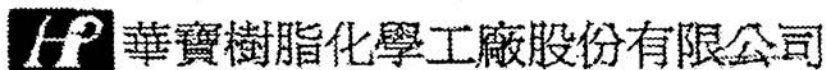
日期：92.11.18
DATE

品名 ART NO	I-60D010M		
檢驗項目 Item	單位 Units	檢驗結果 Result	檢驗方法 Test Method
硬度 Hardness	A/D	59D	ASTM D-2240 (Shore 硬度計)
比重 Sp. Gr	g/cm ³	1.24	ASTM D-792
100% 抗拉模數 100% Modulus	kg/cm ²	174.96	ASTM D-412
300% 抗拉模數 300% Modulus	kg/cm ²	245.60	ASTM D-412
抗拉強度 Tensile Strength	kg/cm ²	371.74	ASTM D-412
伸長率 Elongation at Break	%	413.27	ASTM D-412
撕裂強度 Tear Strength	kg/mm ²	21.66	ASTM D-624
磨擦損耗 Abrasion Loss	mm ³	40.2	DIN-53516
MI 值 MI Value	°C/5 kg g/10min	205°C/5 kg 1-2	ASTM D-1238
備註 Remark	1. 乾燥條件：100°C/3-5hr 2. 加工溫度：200-215°C 3. 射壓：25~150 kg/cm ² 4. 保壓：25~130 kg/cm ² 5. 背壓：5~40 kg/cm ² 6. 回火：100°C x 24hr 7. 拉伸速度：100 mm/min		

MANAGER :

Q. C CHIEF :

INSPECTOR : 黃榮強



華寶樹脂化學工廠股份有限公司

MS: 986

HWA PAO RESINS CHEMICAL CO., LTD.

Page 1 of 3

物質安全資料表

Material Safety Data Sheet

一、物品與廠商資料 1. Identification of the substance/preparation and company

N921117

物品名稱 Product Information: TPU (Thermoplastic polyurethane)
物品編號 Product Number: Punique I-60D010M
製造商或供應商名稱、地址及電話 Information on Producer/Supplier Name, Address, Phone: 華寶樹脂化學工廠股份有限公司 / 台南縣佳里鎮海邊里萊草寮1-17號 / (06)7262350-3 • 7261123-5 HWA PAO RESINS CHEMICAL CO., LTD. / NO.1-17, LAI KANG LIAO, HAI CHENG LI, CHIA LI CHEN, TAINAN HSIEN, TAIWAN, R.O.C. / (06)7262350-3 • 7261123-5
緊急聯絡電話 / 傳真電話 Emergency Phone/Fax: (06)7262350-3 • 7261123-5 / (06)7261333

二、成分辨識資料 2. Composition/Information on Ingredients

純物質 Single:

中英文名稱 English Name: TPU thermoplastic polyurethane
同義名稱 Synonyms: TPU
化學文摘社登記號碼 Chemical Abstracts Number (CAS NO.): -
危險物質成分百分比 Percentage for Chemical Ingredient (%): -

混合物 Mixing:

化學性質 Chemical Character:		
危險物質成分之中英文名稱 Hazardous Components Name	濃度或濃度範圍 (成分百分比) Concentration/Percentage (%)	危險物質分類及圖式 Hazard Symbols
TPU (thermoplastic polyurethane)	100	-

三、危害辨識資料 3. Hazards Identification

最重要危害效應 Major Hazard Effect
健康危害效應: 頭痛、暈眩、困倦、嘔吐。 Hazard Warnings for Health: Headache, dizziness, vomit and drowsiness.
環境影響: 空氣污染和水污染。 Hazard Warnings for Environment: Air pollution and water pollution.
物理性及化學性危害: 易燃、易爆炸溶劑。 Physical and Chemical Dangerous: Explosive and flaming organic solvent.
特殊症狀 Special Harm:
主要症狀: 頭痛、暈眩、困倦、嘔吐。 Major Sate: Headache, dizziness, vomit and drowsiness.

四、急救措施 4. First Aid Measures

不同暴露途徑之急救方法 Emergency and First Aid Procedures:
<ul style="list-style-type: none"> 吸入 Inhalation: 將患者移至空氣清新處。Take patient into the fresh air. 皮膚接觸 Skin Contact: 以大量肥皂水洗滌。Wash thoroughly with plenty of soapy water. 眼睛接觸 Eye Contact: 以大量清水洗滌再送醫治療。Wash with plenty of water, then consult oculist. 食入 Ingestion: 避免催吐並送醫治療。Avoid vomiting and seek medical advice.
最重要症狀及危害效應: 頭痛、暈眩、困倦、嘔吐。 Major Disease and Harm Effect: Headache, dizziness, vomit and drowsiness.
對急救人員之防護: 戴防護手套, 以免接觸污染物。 First-Aid Personal Protection: Wear respirator, rubber gloves, goggles and protective clothing.
對醫師之提示: 樹脂種類。 Prompt to Doctor: Kind of resin.

五、滅火措施 Fire Fighting Measures

適用滅火劑: 水、泡沫及粉末滅火劑。 Suitable Extinguishing Media: Water, foam and powder extinguisher.



華寶樹脂化學工廠股份有限公司

HWA PAO RESINS CHEMICAL CO., LTD.

Page 2 of 3

MS : 986

滅火時可能遭遇之特殊危害：產生一氧化氮、氮氧化物、異氰酸鹽蒸氣及微量氰酸。
 Special Exposure Hazards : Formation of carbon monoxide, nitrogen oxides, isocyanate vapors and traces of hydrogen cyanate may occur.

特殊滅火程序：-

Special Extinguishing Procedure :-

消防人員之特殊防護設備：戴防護口罩。

Special Protection Equipment : Wear respiratory protection equipment.

六、洩漏處理方法 6. Accidental Release Measures

個人應注意事項：戴口罩、橡膠手套、護目鏡及防護衣。
 Personal protection : Wear respirator, rubber gloves, goggles and protective clothing.

環境注意事項：避免流入下水道以免阻塞。

Environmental Protection : Prevent entry into the sewage system, risk of blockage due to polymer

清理方法：以吸濕物質覆蓋，再以圓錐裝入容器。

Methods for Cleaning Up : Cover residues with humid absorbent material, then fill into container by shovel.

七、安全處理與儲存方法 7. Handling and Storage

處理：工作區域保持通風良好。

Handling : Ensure efficient exhaust ventilation in the working area.

儲存：容器保持密閉，並儲存於陰涼處。

Storage : Keep container tightly closed and store at a dry place.

八、暴露預防措施 8. Exposure Controls/Personal Protection

工程控制：Engineering Control

控制參數 Control Factor

八小時日時量平均 容許濃度 TWA	短時間時量平均 容許濃度 STEL	最高容許 濃度 CEILING	生物指標 BEI
-	-	-	-

個人防護設備 Personal Protection Equipment :

• 呼吸防護 Respiratory Protection : 戴防護口罩。Wear air-supplied respirator.

• 手部防護 Hand Protection : 戴手套。Wear gloves.

• 眼睛防護 Eye Protection : 戴防護面具。Wear goggles.

• 皮膚及身體防護 Skin & Body Protection : 穿防護衣。Wear protective clothing.

衛生措施：遵循一般防護措施，衣物被污染須立即更換，工作後洗手。

Hygiene Procedures : Observe the common precautionary measures, contaminated clothes must be changed immediately, wash hands after work is completed.

九、物理及化學性質 9. Physical and Chemical Properties

物質狀態 Appearance : 固體 Solid	形狀 Form : 固體 Solid
顏色 Color : 淺黃色 Light yellow	氣味 Odor : -
pH值 pH value : -	沸點/沸點範圍 Boiling Point /Boiling Range : -
分解溫度 Decomposition Temperature : -	閃火點 Flash Point : >765F (407°C)
自然溫度 Spontaneous Temperature : >765F (407°C)	測試方法 Test Method : ASTM D -1929
蒸氣壓 Vapor Pressure : -	爆炸界限 Exposure Limits : -
密度 Specific Gravity : 1.10-1.30 (Water=1)	蒸氣密度 Vapor Density : -
	溶解度 Solubility in Water : -


十、安定性及反應性 10. Stability and Reactivity

安定性 Stability : 安定 Stable.

特殊狀況下可能之危害反應：高溫分解。

Special Conditions of Hazardous Reaction : Decomposed at high temperature.

應避免之狀況：遠離火源。


華寶樹脂化學工廠股份有限公司

MS: 986

HWA PAO RESINS CHEMICAL CO., LTD.

Page 3 of 3

Conditions to Avoid: Keep away from flame.

應避免之物質: 強鹼強酸。

Incompatibility: Strong alkalis and strong acids.

危害分解物: 熱分解時會產生可燃有毒的氣體。

Hazardous Decomposition Products: Formation of combustible and noxious fumes during thermal decomposition.

十一、毒性資料 11. Toxicological Information

急性毒性: 呼吸困難。

Acute Toxicity: Breathe hardly.

局部效應 Local Effects: -

致敏性 Sensitive: -

慢性或長期毒性: 神經系統障礙, 遲緩。

Chronic: Nervous breakdown.

特殊效應 Exceptional Effect:

十二、生態資料 12. Ecological Information

可能之環境影響/環境流佈: 污染水源, 勿排入河川、溝渠或地表。

Possibility of Environmental Impact/Move: Hazardous to water. Must not enter the waters, drains or ground.

十三、廢棄處理方法 13. Disposal Considerations

廢棄處理方法: 依地方法規焚化處理。

Disposal Information: Should be disposed of appropriate incineration unit observing official local regulations.

十四、運送資料 14. Transport Information

國際運送規定:

International Transport Regulation:

聯合國編號 The United Nations Number (Un-No):

國內運送規定:

Internal Transport Regulation:

特殊運送方法及注意事項: 遠離食品、酸及鹼, 並放置於陰涼處。

Special Transport Way and Note: Keep away from foodstuffs, acids, alkalis, and store at a dry place.

十五、法規資料 15. Regulatory Information

適用法規:

Apply Regulation:

十六、其他資料 16. Other Information

製表單位 Make Unit	名稱: 華寶樹脂化學工廠股份有限公司 Name: HWA PAO RESINS CHEMICAL CO., LTD.	
	地址/電話: 台南縣佳里鎮海澄里萊芋寮1-17號 / (06)7262350~3 • 7261123~5轉220 Addresses/Phone: NO.1-17, LAI KANG LAO, HAI CHENG LI, CHIA LI CHEN, TAINAN HSIEN, TAIWAN, R.O.C. / (06)7262350-3 • 7261123-5 ext. 220	
製表人 Make People	職稱: 研究部經理 Professional Post: Research Leader	姓名(簽章): 劉銀來 Name (Sign): Liu Yin Lai
製表日期 Make Date	2003/11/17	

SPECIFICATION FOR APPROVAL

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,
WU KU IND. DISTRICT
TAIPEI HSIEN,TAIWAN

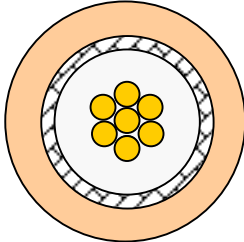
FACTORY : 17 PEI YUAN ROAD,
CHUNG-LI IND. PARK
TAIWAN, R.O.C.

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

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

WONDERFUL WIRE CABLE CO., LTD

SPECIFICATION

STYLE	200°C 30V COAXIAL	DOCUMENT NO : A30178B001	
SIZE	RG-178B/U	ESTABLISHED DATE: 2000/06/29	
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
	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	M17/93-RG178B/U WONDERFUL		
Drawing			

AK001/210X297/1.0

PAGE : 1

EDITION : 1.0

REVISED DATE :

MAKER :

CONFIRM :

APPROVAL :

WONDERFUL WIRE CABLE CO., LTD

SPECIFICATION

Electrical & Physical Properties						
Item		RG-178B/U				
Rating Temp Voltage		200°C 30V				
Conductor Resistance		838.0 OHM/KM/20°C MAX.				
Insulation Resistance		100 MEGA OHM/KM MIN.				
Dielectric Strength		AC 1.0 KV/Minute				
Spark Test		0.5 KV				
Insulation	Unaged	Tensile Strength	2500 PSI MIN.(1.76 Kg / m m ²)			
		Elongation	200% MIN.			
	Aged	Tensile Strength	UNAGED MIN.75%(168HRS×232°C)			
		Elongation	UNAGED MIN.75%(168HRS×232°C)			
Jacket	Unaged	Tensile Strength	2500 PSI MIN.(1.76 Kg / m m ²)			
		Elongation	200% MIN.			
	Aged	Tensile Strength	UNAGED MIN.75%(168HRS×232°C)			
		Elongation	UNAGED MIN.75%(168HRS×232°C)			
Nom. Impedance		50 Ohms				
VSWR		MAX. 1.3 at 0.4G~3GHz				
Nom. Vel. of Prop.		69.5%				
Flame Test		VW-1 OK				
Attenuation (dB/100m)	50MHz	100MHz	400MHz	900MHz	1.8GHz	3GHz
	34.4	45.9	91.8	139.4	207.5	308.2

AK001/210X297/1.0

PAGE : 2

EDITION : 1.0

REVISED DATE :

MAKER :

CONFIRM :

APPROVAL :



PT. NEW CROWN METAL WORKS

JL. INDUSTRI 32 (MASUK JL. SUKSI CIRACAS - JAKARTA TIMUR (13750) - INDONESIA
 TELP. : 8400374 (HUNTING), 8401589 - 8402531 - 8403604
 FAX : (62-21) 8400895 - 87791167

Report of goods analyzed Internal

2006_0102

customer : SHIN TAY LONG FIVE Metal Product Co., Ltd

date : 16 September 2002.

kind of goods : BRASS TUBE
 size : 25 mm x 1.5 mm
 product standard : JIS H3300 - C2700 T-O
 net weight : 20.000 Kgs.

Chemical composition	Standard (%)	Tested (%)
<i>62</i> <i>01</i> <i>2/4</i> Cu	63.6 - 67.0	65.18
Fo	0.05	0.01
Pb	0.05	0.02
Zn	residual	residual
Tensile strength	295	388
Outer diameter	25 mm	26.06 mm
Wall thickness	1.5 mm	1.66 mm



台灣塑膠工業股份有限公司

台北市敦化北路 201 號

FORMOSA PLASTIC CORPORATION

201, TUNG-HWA NORTH ROAD, TAIPEI

TAIWAN, REPUBLIC OF CHINA

TEL: (02)2712-2211 FAX: (02)2718-1230

林園廠：高雄縣林園鄉石化一路一之一號

TEL: (07)641-9911 FAX: (07)642-5581

CERTIFICATION

This is to certify that, according to Yungsox Additive Package and Company laboratory test result,

YUNGSOX 1040F

grade(s) POLYPROPYLENE meet(s) the specification promulgated by the Food and Drug Administration of United States of America (FDA) for olefin polymers in 21 code of Federal Regulation Section 177.1520, and may be safely used in articles or compounds of articles intended for use in contact with food.

Very Truly Yours

Polypropylene Division

Technic Dept.



台灣塑膠工業股份有限公司 林園廠
中華民國臺灣省高雄縣林園鄉石化一路一號
FORMOSA PLASTICS CORPORATION
LIN-YUAN PLANT: 1, HSIH-HWA 1ST ROAD,
LIN-YUAN HSIAN, KAOHSIUNG COUNTY,
TAIWAN, R.O.C.

TO WHOM IT MAY CONCERN

Our Ref:TC85003

HEALTH CERTIFICATION

This is to certify that, according to Taisox Additive Package and Company laboratory test result, Taisox 9001, Taisox 9002, Taisox 9003, Taisox 8003, Taisox 8010, Taisox 8050, and Taisox 7200 grades Polyethylene meet the specifications promulgated by the Food and Drug Administration of United States of America (F D A) for olefin polymers in 21 code of Federal Regulation Section 177. 1520, and may be safely used in articles or compounds of articles intended for use in contact with food.

Very Truly Yours

Polyolefin Division
Manager Technical Dept.
Tong Kuen Wu

RoHS REPORT INDEX-RFA-02-L4M3

	NAME	供應商	RoHS report
1	Base/Hinge-PA757	CHI-MEI CORPORATION	KE/2005/51620
2	Antenna Shell-TPU	WEIKANG LTD.	CE/2004/B0079A
3	Cable-RG178	WONDERFUL HI-TECH CO.,LTD	CE/2004/C1640
4	銅管	唐正企業有限公司	CE/2005/70644
5	固定座	台灣塑膠工業股份有限公司	KA/2004/B0618
6	RP SMA PLUG		
6-1	FREE CUTTING COPPER ALLOYS	Aliner Industries, INC.	CE/2004/80306
6-2	BERYLLIUM COPPER C17300 M25	TAI MAO TECHNOLOGY CO.,LTD	CE/2004/83645
6-3	PTFE	宏庫貿易	CE/2004/93004A



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)	---	---	---	---
BROMOBIPHENYL	%	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	%		0.0005	n.d.
TRIBROMOBIPHENYL	%		0.0005	n.d.
TETRABROMOBIPHENYL	%		0.0005	n.d.
PENTABROMOBIPHENYL	%		0.0005	n.d.
HEXABROMOBIPHENYL	%		0.0005	n.d.
HEPTABROMOBIPHENYL	%		0.0005	n.d.
OCTABROMOBIPHENYL	%		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

The Content of this PDF file is in accordance with the original issued reports for reference only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.



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)	---	---	---	---
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>

The Content of this PDF file is in accordance with the original issued reports for reference only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.

SGS Taiwan Limited

No. 208, Chung Hwa 2nd Road, San Ming District, Kaohsiung, Taiwan

t (886-7) 323-0920

f (886-7) 315-7484

www.sgs.com.tw

Member of the SGS Group (Société Générale de Surveillance)