

■ Panlite L-1250Z

Category	Unit	Test Method	Condition	L-1250Z 100
Melt volume flow rate	cm <sup>3</sup> /10min	ISO 1133	300°C load 1.2kg	8
Density	kg/m <sup>3</sup>	ISO 1183	—	1200
Water absorption rate	%	ISO 62	in water 23°C24h	0.2
Light transmission	%	ASTM D 1003	thickness 3mm	88
Refractive index	—	ASTM D 542	—	1.585
Tensile modulus	MPa	ISO 527-1 and ISO 527-2	1mm/min	2400
Tensile stress at yield	MPa		50mm/min	61
Tensile strain at yield	%		50mm/min	6
Nominal tensile strain at break	%		50mm/min	>50
Flexural modulus	MPa	ISO 178	2mm/min	2350
Flexural strength	MPa		2mm/min	93
Charpy impact strength	KJ/m <sup>2</sup>	ISO 179	unnotched	NB
			notched	76
Heat deflection temperature	°C	ISO 75-1 and ISO 75-2	1.80MPa	129
			0.45MPa	142
Vicat softening temperature	°C	ISO 306	50°C/h 50N	149
Mold shrinkage	%	In-house method	parallel	0.5~0.7
			vertical	0.5~0.7
Coefficient of linear expansion	× 10 <sup>-4</sup> /°C	ISO 11359-2	parallel	0.7
			vertical	0.7
Specific inductive capacity	—	IEC 60250	100Hz	3.1
	—		1MHz	3
Dielectric loss tangent	× 10 <sup>-4</sup>	IEC 60250	100Hz	10
	× 10 <sup>-4</sup>		1MHz	90
Volume resistivity	Ω·m	IEC 60093	—	>1 × 10 <sup>13</sup>
Surface resistivity	Ω	IEC 60093	—	>1 × 10 <sup>15</sup>
Withstand voltage	MV/m	IEC 60243-1	short time test	30
Tracking resistance	—	IEC 60112	—	250
Flammability	—	UL 94	—	V-2(0.40mm) HB(1.5mm)
Temperature index	°C	UL 746B	electric 1.47mmt	125
			impact 1.47mmt	115
			non-impact 1.47mmt	125

※The values listed are specification values, not certified values.



**JALOX® 310SE0**  
 Asia Pacific: COMMERCIAL

**GE Plastics**

Unreinforced, UL94V-0/5VA rated. For electrical industry, hobbins, keyboard switches and switch components, and appliance housings

TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	UNIT	STANDARD
<b>MECHANICAL</b>			
Tensile Stress, yld, Type I, 50 mm/min	50	MPa	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	58	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	80	%	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	101	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	101	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2620	MPa	ASTM D 790
Hardness, Rockwell R	120	R	ASTM D 785
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	16 <sup>02</sup>	J/m	ASTM D 4812
Izod Impact, notched, 23°C	37	J/m	ASTM D 256
Gardner, 23°C	34	J	ASTM D 3029
Modified Gardner, 23°C	34	J	ASTM D 3029
<b>THERMAL</b>			
HDT, 0.45 MPa, 6.4 mm, unannealed	193	°C	ASTM D 648
HDT, 1.02 MPa, 6.4 mm, unannealed	71	°C	ASTM D 648
CTE, -40°C to 40°C, low	7.92E-05	1/°C	ASTM E 831
CTE, 80°C to 138°C, low	1.31E-04	1/°C	ASTM E 831
Relative Temp Index, Elec	120	°C	UL 746B
Relative Temp Index, Mech w/impact	120	°C	UL 746B
Relative Temp Index, Mech w/o impact	140	°C	UL 746D
<b>PHYSICAL</b>			
Specific Gravity			ASTM D 792
Specific Volume	0.72	cm <sup>3</sup> /g	ASTM D 792
Water Absorption, 24 hours	0.08	%	ASTM D 570
Mold Shrinkage, flow, 0.75-2.3 mm	0.9-1.6	%	GE Method
Mold Shrinkage, flow, 2.3-4.8 mm	1.5-2.3	%	GE Method
Mold Shrinkage, xflow, 0.75-2.3 mm	1-1.7	%	GE Method
Mold Shrinkage, xflow, 2.3-4.8 mm	1.6-2.4	%	GE Method
<b>ELECTRICAL</b>			
Volume Resistivity	≥ 1.6E+16	Ω·cm	ASTM D 257

<sup>1</sup> Typical values are minimums unless otherwise specified. Values are based on a minimum of 10 specimens tested at 23°C ± 2°C, unless otherwise specified. All specimens must be conditioned in a desiccator at 23°C ± 2°C for a minimum of 24 hours before testing. <sup>2</sup> This value is for informational purposes only and is not to be used for design purposes. <sup>3</sup> The value is for informational purposes only and is not to be used for design purposes. <sup>4</sup> This value is for informational purposes only and is not to be used for design purposes.

Source: GMD Literature 00117293

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GE PLASTICS AMERICAS

1 PLASTICS AVE PITTSFIELD MA 01201

Material Designation: 310SE0(x), 310SE0R(w), 310SE0U(w), 371(w)

Product Description: Polybutylene Terephthalate (PBT), designated "Valox" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Rec	RTI Imp	RTI Str	IEC GWIT	IEC GWF
ALL	0.71	V-0			120	120	140		
	0.75	V-0	4	1	120	120	140		
	1.5	V-0	3	0	120	120	140		
	3.0	V-0	2	0	120	120	140		

CTI: 3

HYTR: 4

D495: 6

IEC Ball Pressure (°C)

Biaxial

Stability (V): 0.1

ISO Heat Deflection

(°C)

ISO Charpy Impact

(kJ/m²)

Dielectric Strength (kV/mm): 22

ISO Tensile Strength (MPa): -

ISO Tensile Impact (kJ/m²): -

Volume Resistivity (10<sup>12</sup> ohm-cm): 13

ISO Flexural Strength (MPa): -

ISO Izod Impact (kJ/m²): -

(w) Recognition includes the use of surface dyes.

(NOTE) Material designation may be followed by a color nomenclature consisting of either an alpha/numeric or numeric/alpha combination.

Report Date: 5/11/1972

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 U.L.



VALOX® 310SEQ  
Asia Pacific: COMMERCIAL

TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	UNIT	STANDARD
Dielectric Strength, in air, 3.2 mm	18.4	kV/mm	ASTM D 149
Dielectric Strength, in oil, 1.6 mm	22	kV/mm	ASTM D 149
Relative Permittivity, 100 Hz	3.1	.	ASTM D 150
Relative Permittivity, 1 MHz	3.1	.	ASTM D 150
Dissipation Factor, 100 Hz	0.002	.	ASTM D 180
Dissipation Factor, 1 MHz	0.02	.	ASTM D 160
Arc Resistance, Tungsten (PLC)	6	PLC Code	ASTM D 495
Hot Wire Ignition (PLC)	2	PLC Code	UL 746A
High Voltage Arc Track Rate (PLC)	4	PLC Code	UL 748A
High Ampere Arc Ign, surface (PLC)	0	PLC Code	UL 748A
Comparative Tracking Index (UL) (PLC)	3	PLC Code	UL 748A
<b>FLAME CHARACTERISTICS</b>			
UL Recognized, 94V-0 Flame Class Rating (3)	0.7	mm	UL 94
UL Recognized, 94-SVA Rating (3)	3	mm	UL 94
CSA (See File for complete listing)	1589480	File No.	CSA LISTED

<sup>1</sup> Typical values only. Values may vary with processing conditions and are not intended to be used for design purposes. All dimensions are in millimeters unless otherwise specified. All dimensions are in millimeters unless otherwise specified.

<sup>2</sup> Only typical test for tracking selection purposes. Not to be used for design purposes. <sup>3</sup> The rating is not intended to be used for design purposes. It is a guide only. Actual life depends on test measurement according to UL.

Version: GMD LAM Update 04/11/2011

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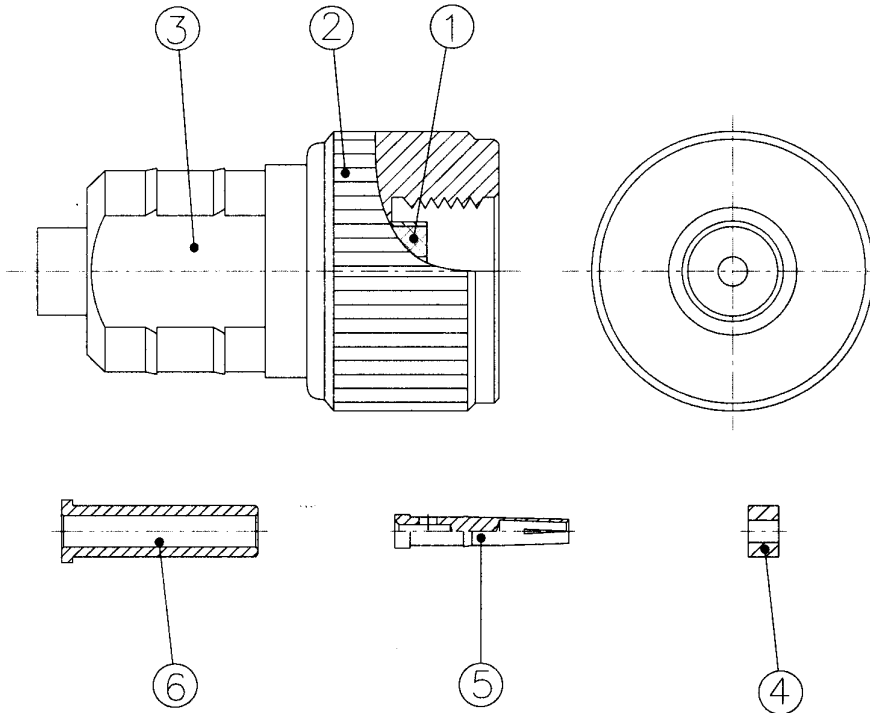
譚裕實業股份有限公司

WHA YU INDUSTRIAL CO., LTD

Connector 材質證明書

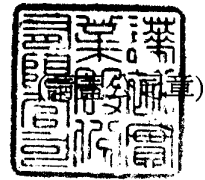
譚裕料號 Whayu P/N	100-2001010-AZ	產品名稱 Product Name	Big SMA Plug Reverse Straight for RG-178
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結構圖面



材質成份								表面處理
1	絕緣體	Teflon	PTFE					N/A
2	外殼	Brass	Cu	Pb	Fe	Fe+Sn	Zn	電著
3	主體	Brass	Cu	Pb	Fe	Fe+Sn	Zn	鍍鎳
4	絕緣體	Teflon					PTFE	
5	中心針	Phos. Bronze	Cu	Sn	P	Zn	Pb	鍍金
6	尾管	Brass	Cu	Pb	Fe	Fe+Sn	Zn	鍍鎳

Remark :



**Fax-on-Demand:** (800) 260-9099  
(650) 361-6523

**Before ordering check with  
factory for most current data.**

FAX ID	Description
2240	Data sheet
2590	RW-3010

## Versafit V4

Very-thin-wall, very flexible, highly  
flame-retardant polyolefin tubing

### Applications

Typically used where space saving is important. Offers the ability to pack components more closely than is possible with standard tubings. Cost-effective choice for many commercial applications; electrically insulates and protects in-line components, disconnect terminals, and splices. Used for strain relief on high-density connectors.

### Operating Temperature Range

-55°C to 125°C

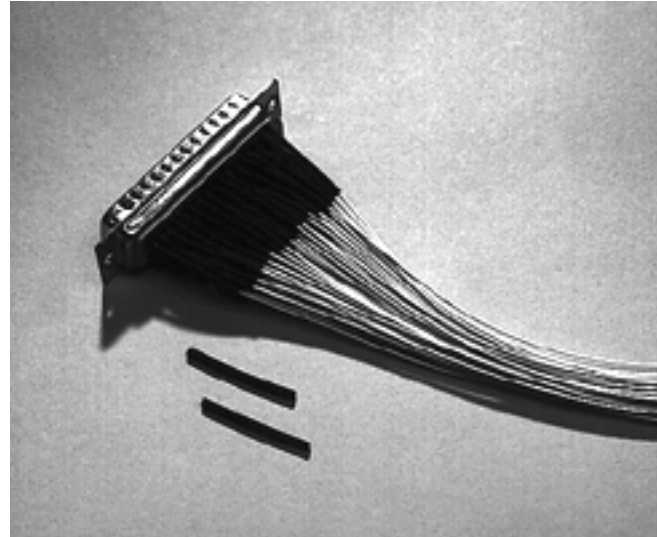
### Features/Benefits

- 2:1 shrink ratio.
- Very thin wall provides space savings and rapid shrinking.
- Low shrink temperature further reduces installation time and risk of damage to temperature-sensitive components.
- Very flexible; doesn't easily wrinkle when bent.
- Free of polybrominated biphenyls (PBBs) and polybrominated biphenyl oxides and ethers (PBBOs and PBBEs), which are classified as environmentally hazardous substances.

### Installation

Minimum shrink temperature: 70°C

Minimum full recovery temperature: 90°C



### Specifications/Approvals



Series	UL	CSA	Raychem
Versafit V4	E35586 VW-1 300 V, 125°C	LR31929 OFT 150 V, 125°C	RW-3010

### Product Dimensions

Metric sizes	As supplied		After shrinkage		Size	As supplied		After shrinkage	
	Inside Diameter	Wall thickness (nominal)	Inside diameter (max.)	Wall thickness* (min.)		Inside diameter	Wall thickness	Inside diameter (max.)	Wall thickness* (min.)
1.0/0.5	1.4 ±0.25	0.1	0.5	0.25	5.0/2.5	5.5 ±0.25	0.15	2.5	0.25
1.5/0.75	1.9 ±0.25	0.1	0.75	0.25	6.0/3.0	6.5 ±0.4	0.15	3.0	0.28
2.0/1.0	2.3 ±0.25	0.1	1.0	0.25	7.0/3.5	7.5 ±0.4	0.15	3.5	0.28
2.5/1.25	2.8 ±0.25	0.15	1.25	0.25	8.0/4.0	8.5 ±0.4	0.15	4.0	0.28
3.0/1.5	3.3 ±0.25	0.15	1.5	0.25	9.0/4.5	9.5 ±0.4	0.15	4.5	0.28
3.5/1.75	3.8 ±0.25	0.15	1.75	0.25	10.0/5.0	10.5 ±0.5	0.15	5.0	0.28
4.0/2.0	4.4 ±0.25	0.15	2.0	0.25					
Inch sizes (mm/in)									
3/64	1.2 (.046)	0.6 (.023)	.30 ±.05 (.012 ±.002)		1/4	6.4 (.250)	3.2 (.125)	.36 ±.05 (.014 ±.002)	
1/16	1.6 (.063)	0.8 (.031)	.30 ±.05 (.012 ±.002)		3/8	9.5 (.375)	4.8 (.187)	.36 ±.05 (.014 ±.002)	
3/32	2.4 (.093)	1.2 (.046)	.30 ±.05 (.012 ±.002)		1/2	12.7 (.500)	6.4 (.250)	.36 ±.05 (.014 ±.002)	
1/8	3.2 (.125)	1.6 (.062)	.33 ±.05 (.013 ±.002)		3/4	19.1 (.750)	9.5 (.375)	.46 ±.08 (.017 ±.003)	
3/16	4.8 (.187)	2.4 (.093)	.33 ±.05 (.013 ±.002)		1	25.4 (1.000)	12.7 (.500)	.51 ±.08 (.020 ±.003)	

\*Wall thickness will be less if tubing recovery is restricted during shrinkage.

### Ordering Information

Color	Standard Black (-0) Nonstandard Other colors available upon request.
Size selection	Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request.
Standard packaging	On spools.
Marking	Marked with UL/CSA/F- legends.
Ordering description	Specify product name, size, and color (for example, Versafit V4-1.0-0).

Versafit is a trademark of Raychem Corporation.



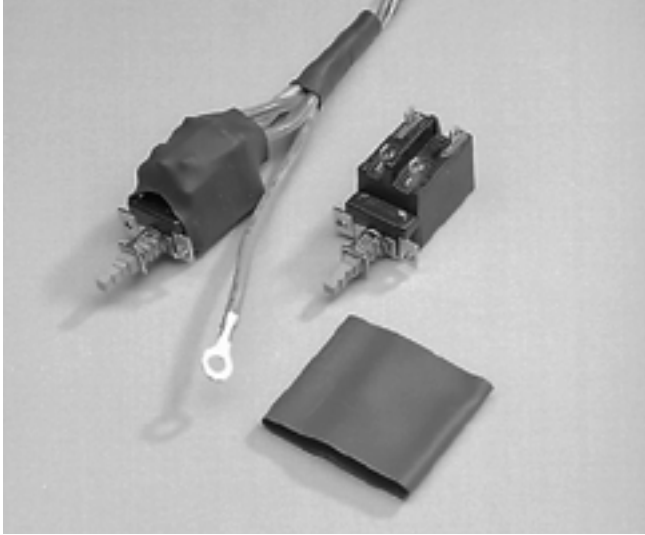
# Versafit V2

Highly flame-retardant, very flexible, low-shrink-temperature polyolefin tubing

Fax-on-Demand: (800) 260-9099  
(650) 361-6523

FAX ID	Description
2222	Data sheet
2221	RT-1136

Before ordering check with factory for most current data.



## Applications

Cost-effective choice for many commercial and military applications; electrically insulates and protects in-line components, disconnect terminals, and splices. Bundles wires for very flexible light-duty harnesses. Strain-relieves electrical wire connections for commercial applications. Identifies or color-codes wires, cables, terminals, and components.

## Operating Temperature Range

-55°C to 125°C

## Features/Benefits

- 2:1 shrink ratio.
- Low shrink temperature reduces installation time and the risk of damage to temperature-sensitive components.
- Very flexible; doesn't easily wrinkle when bent.
- Hot stamps extremely well.
- Free of polybrominated biphenyls (PBBs) and polybrominated biphenyl oxides and ethers (PBBOs and PBBEs), which are classified as environmentally hazardous substances.
- Higher temperature rating, better thermal stability, and higher resistance to physical abuse than noncrosslinked materials.

## Installation

Minimum shrink temperature: 70°C

Minimum full recovery temperature: 90°C

## Specifications/Approvals

Series	UL	CSA	Raychem
Versafit	E35586 VW-1 600 V, 125°C	LR31929 OFT 600 V, 125°C	RW-3023

## Product Dimensions (mm)

Size	As supplied		After shrinkage	
	Inside diameter	Wall thickness (nominal)	Inside diameter (max.)	Wall thickness* (min.)
1.0	1.6 ±0.2	0.2	0.5	0.33
1.5	2.1 ±0.2	0.2	0.75	0.35
2.0	2.6 ±0.2	0.25	1.0	0.43
2.5	3.1 ±0.2	0.25	1.25	0.43
3.0	3.6 ±0.2	0.25	1.5	0.43
3.5	4.1 ±0.3	0.25	1.75	0.43
4.0	4.6 ±0.3	0.25	2.0	0.43
5.0	5.6 ±0.3	0.3	2.5	0.56
6.0	6.6 ±0.3	0.3	3.0	0.56
7.0	7.6 ±0.3	0.3	3.5	0.56
8.0	8.6 ±0.3	0.3	4.0	0.56
9.0	9.6 ±0.3	0.3	4.5	0.56
10.0	10.4 ±0.3	0.3	5.0	0.56

Size	As supplied		After shrinkage	
	Inside diameter	Wall thickness (nominal)	Inside diameter (max.)	Wall thickness* (min.)
11.0	11.4 ±0.3	0.3	5.5	0.56
12.0	12.7 ±0.3	0.3	6.0	0.56
13.0	13.5 ±0.3	0.35	6.5	0.66
14.0	14.4 ±0.4	0.35	7.0	0.68
15.0	15.7 ±0.4	0.35	7.5	0.68
16.0	16.9 ±0.4	0.35	8.0	0.68
18.0	19.0 ±0.4	0.4	9.0	0.76
20.0	21.4 ±0.4	0.4	10.0	0.76
22.0	23.2 ±0.4	0.45	11.0	0.89
25.0	26.8 ±0.4	0.45	12.5	0.89
27.0	28.2 ±0.5	0.45	12.5	0.89
28.0	30.0 ±0.5	0.45	14.0	0.89
30.0	32.1 ±0.5	0.45	15.0	0.89

\*Wall thickness will be less if tubing recovery is restricted during shrinkage.

## Ordering Information

Color	Standard Black (-0), white (-9), red (-2), blue (-6), yellow (-4), green (-5) Nonstandard Orange (-3), violet (-7), brown (-1), gray (-8)
Size selection	Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request.
Standard packaging	On spools.
Marking	Marked with UL/CSA-F- legends.
Ordering description	Specify product name, size, and color (for example, Versafit V2-3.0-0).

Versafit is a trademark of Raychem Corporation.

3-50 Tubing **Raychem**

# SGS Test Report

Product : RF Antenna

## Contents

NO.	Description		Report NO.	Page
1	Cable	RG-178 Cable	CE/2005/84353	P.26~29
2	Antenna Cap	TPE	SH533385/CHEM	P.30~31
3	Upper Base	PC	CE/2004/C2403	P.32~33
4	Bottom Base	PBT	CE/2005/71866	P.34~36
5	Rivet	POM	SZTY R050422342/LP	P.37~38
6	Ground Tube	Ni Plated	SH566180-1/CHEM	P.39~41
7	Signal Tube	Brass	SH526190/CHEM	P.42~43
8	Helix	Brass	SH529803/CHEM	P.44~45
9	Connector	Big SMA Plug	SH549575/CHEM SH527244/CHEM SH556644/CHEM SHE558042/CHEM	P.46~53
10	H.S Tube	Heat Shrink Tube	SZTY R050305474/LP	P.54~57

**Result for RoHS :PASS**



# Test Report

Report No. : CE/2005/84353  
Date : 2005/08/25  
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

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Test Result : - Please see the next page -

  
Daniel Yen, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.



# Test Report

Report No. : CB/2005/84353

Date : 2005/08/25

Page : 2 of 4

## Test Result

PART NAME NO.1

MIXED TRANSPARENT BROWN PEP JACKET AND  
TRANSPARENT INSULATION (PLEASE REFER TO  
THE PHOTO ATTACHED)

Test Item (s):	Unit	Method	MDL	Result
				No.1
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAL, 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
<b>Total PBBs (Polybrominated biphenyls)/ Sum of above</b>	%			N.D
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAL, 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
<b>Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/ Sum of above</b>	%			N.D



## Test Report

Report No. : CE/2005/84353

Date : 2005/08/25

Page : 3 of 4

Test Item (s)	Unit	Method	MDL	Result
				No.1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D
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 3030B 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

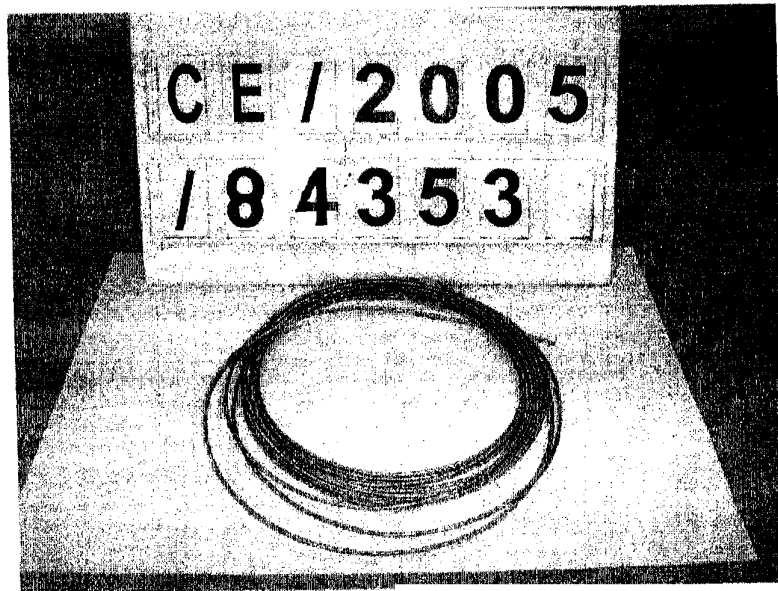


## Test Report

Report No. : CE/2005/84353

Date : 2005/08/25

Page : 4 of 4



## Test Report

No. SH533385/CHEM

Date: 6.7.2005

Page 1 of 2

KUNSHAN XIANGXIN PRECISION MOLD CO., LTD  
HUGUANG DONG ROAD, NANGANG, ZHANG PU, KUNSHAN

The following sample(s) was/were submitted and identified on behalf of the applicant as:

Sample Name : ANTENNA CAP  
SGS Ref No. : SHEC0050612569-3  
Buyer : WHA YU INDUSTRIAL CO., LTD  
Model :  $\Phi 13 \times 115$ mm  
Material : TPE EL-630

Sample Receiving Date : June 02, 2005  
Testing Period : June 02 to June 07, 2005

Test Requested : 1) To determine the Cadmium Content of the submitted sample.  
2) To determine the Lead content of the submitted sample.  
3) To determine Mercury Content of the submitted sample.  
4) To determine Hexavalent Chromium content of the submitted sample.  
5) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs)  
(Polybrominated biphenyl ethers) Content of the submitted sample.

Test Method : 1) With reference to BS EN 1122:2001, Method B  
Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
2) With reference to US EPA Method 3050B  
Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
3) With reference to US EPA 3052/EPA7473  
Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES)/Hg Analyzer.  
4) With reference to US EPA3060A and US EPA7196A  
Analysis was performed by UV-VIS Spectrometric method.  
5) With reference to USEPA 8081/8270C/3540C/3550B, Analysis was performed by GC/MS.

Test Results : Please refer to next page

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory



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SHCH 270269



**Test Report**

No. SH533385/CHEM

Date: 6.7.2005

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**Test Results**

No.	Item	Unit	MDL	A
1	Cadmium (Cd)	ppm	2	N.D.
2	Lead (Pb)	ppm	2	N.D.
3	Mercury (Hg)	ppm	2	N.D.
4	Hexavalent Chromium (Cr VI)	ppm	2	N.D.
5	PBBs(Polybrominated biphenyls)	---	---	---
	PBBs(Bromobiphenyl)	ppm	5	N.D.
	PBBs(Dibromobiphenyl)	ppm	5	N.D.
	PBBs(Tribromobiphenyl)	ppm	5	N.D.
	PBBs(Tetrabromobiphenyl)	ppm	5	N.D.
	PBBs(Pentabromobiphenyl)	ppm	5	N.D.
	PBBs(Hexabromobiphenyl)	ppm	5	N.D.
	PBBs(Heptabromobiphenyl)	ppm	5	N.D.
	PBBs(Octabromobiphenyl)	ppm	5	N.D.
	PBBs(Nonabromobiphenyl)	ppm	5	N.D.
	PBBs(Polybrominated biphenyls)	ppm	5	N.D.
	PBBEs(PBDEs)(Polybrominated biphenyl ethers)	---	---	---
	PBBEs(PBDEs)(Monobromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Dibromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Tribromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Tetrabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Pentabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Hexabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Heptabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Octabromobiphenyl ether)	ppm	5	N.D.
PBBEs(PBDEs)(Nonabromobiphenyl ether)	ppm	5	N.D.	
PBBEs(PBDEs)(Decabromobiphenyl ether)	ppm	5	N.D.	

Sample Appearance Description:

A. Black plastic

Note : ppm=mg/kg  
 MDL= Method Detection Limit  
 N.D. = Not detected.(<MDL)

\*\*\* End of Report \*\*\*

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SHCH 270270



## Test Report

No. SH525213/CHEM

Date: 4.30.2005

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KUNSHAN XIANGXIN PRECISION MOLD CO., LTD.  
HUGUANG DONG ROAD, NANGANG ZHANGPU, KUNSHAN

The following sample(s) was/were submitted and identified on behalf of the applicant as:

Sample Name : FIXED BASE  
SGS Ref No. : SHEC0050409461  
Buyer : AEON TECH CO., LTD.  
Model : PC-L-1250Z-100  
Supplier : KUNSHAN CITY EVERCHEM PLASTICS LTD.  
Material : PC

Sample Receiving Date : April 19, 2005  
Testing Period : April 19 to April 26, 2005

Test Requested : 1) To determine the Cadmium Content of the submitted sample.  
2) To determine the Lead content of the submitted sample.  
3) To determine Mercury Content of the submitted sample.  
4) To determine Hexavalent Chromium content of the submitted sample  
5) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs)  
(Polybrominated biphenyl ethers) Content of the submitted sample.

Test method : 1) With reference to BS EN 1122:2001, Method B  
Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
2) With reference to US EPA Method 3050B  
Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
3) With reference to US EPA 3052  
Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
4) With reference to US EPA3060A and US EPA7196A  
Analysis was performed by UV-VIS Spectrometric method.  
5) With reference to US EPA 8081, Analysis was performed by GC/MS.

Test Results : Please refer to next page

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

  
Ella Zhang  
Supervisor



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SHCH 246415