

# APPROVAL SHEET

Customer: \_\_\_\_\_

Customer P/N: \_\_\_\_\_

Connfly P/N: DS1025-06

Description: PIN HEADER PITCH 2.00mm R/A TYPE

File Number: CXAS-0908041

Customer Signature:

Quality Department	Engineer Department	Approved By
Date:	Date:	Date:

**CONNFLY**

Made By	Checked By	Approved By
YCH	~	LJC
Date: 09-07-28	Date:	Date: 09-07-28



**CONNFLY ELECTRONIC CO., LTD**

ADD: East Industry Zone KuangYan Town Cixi Ningbo China P.C:315321

Tel:+86-574-63508787 +86-574-63509600

Fax: +86-574-63510817

E-mail:sale@zhenqin.com.cn

<http://www.connfly.com>

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Materials Infomationg

Item	Part Name	Materials	Finished
1	SQUARE PIN	BARSS	Full Gold flash
2	Housing	PA-46	UL 94 V-0

REV.	DESCRIPTION	DRAWN	CHECKED	APPROVED
A	NEW RELEASE	LJH 05/08/05'	~	LJC 05/08/05'
B	图面绘制错误	LL 08/11/06'	~	LJC 08/11/06'
C	增加规格尺寸	LL 01/15/07'		

### NOTES:

#### 1. MATERIAL&FINISHES

- 1.1 INSULATOR:THERMOPLASTIC(UL 94V-0).
- 1.2 CONTACT MATERIAL: COPPER ALLOY.

#### 2. SPECIFICATION

- 2.1 CURRENT RATING:1.5 Amp.
- 2.2 INSULATION RESISTANCE:1000MΩ Min.
- 2.3 DIELECTRIC WITHSTANDING:600VAC.
- 2.4 CONTACT RESISTANCE:20mΩ Max.
- 2.5 OPERATING TEMPERATURE:-20°C TO +80°C.

#### 3. PART NUMBER: DS1025-06

#### 4. PRODUCT NUMBER CODE:

DS1025-06 - X X X X X X

Dim A/B/C type

1:Type 1

2:Type 2

.....

CONTACTS TYPE

R:RIGHT ANGLE TYPE

HOUSING COLOR

B:BLACK

CONTACT PLATING

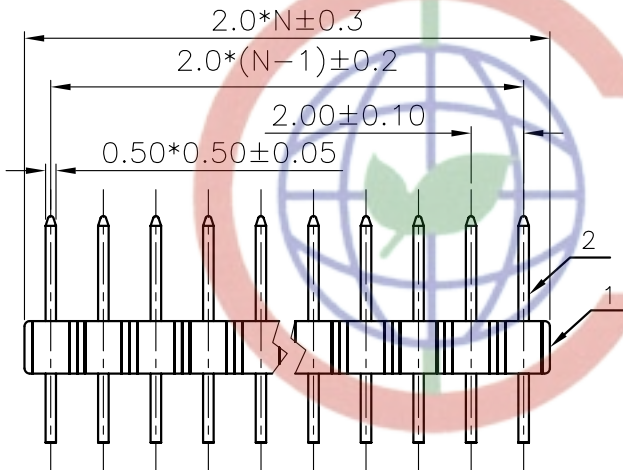
8: FULL GOLD FLASH

CONNECTOR TYPE

P:PLUG

No.OF CONTACTS

2\*2-2\*X



A&B: CUSTOMER LENGTH AVAILABLE  
N: NUMBER OF CONTACTS/2

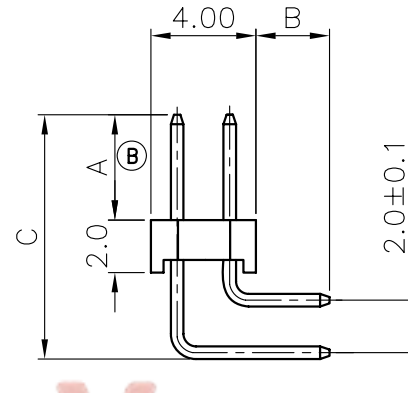
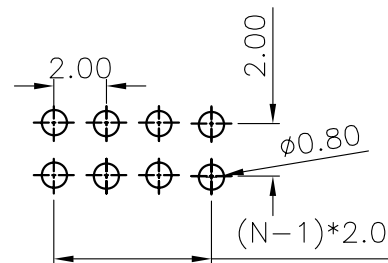


TABLE A

TYPE	Dimension			Pin Length
	A	B	C	
1	4.00	2.80	9.30	10.70 14.70
2	6.00	2.80	11.30	12.70 16.70
3				
4				
5				
6				
7				
8				
9				
10				



RECOMMEND PCB LAYOUT(TOLERANCE=±0.05)

#### GENERAL TOLERANCE

X. ±0.60  
.X ±0.38  
.XX ±0.25

#### ANGLE TOLERANCE

X. ±5°  
.X ±3°  
.XX ±2°

#### PROJECTION



mm

A4

SERIES

DUAL ROW RIGHT ANGLE

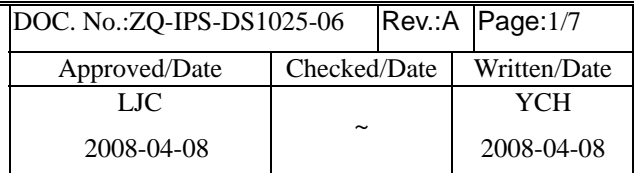
DS1025-06 SERIES




晨翔电子有限公司

CONNFLY CONNFLY ELECTRONIC CO. LTD

2	CONTACT		COPPER ALLOY		GOLD FLASH	DRAWING TYPE	CUSTOMER
1	HOUSING		THERMOPLASTIC		UL 94 V-0	SCALE	1:1 SHEET 1 OF 1
ITEM	PART NAME	PART NO.	MATERILAS		FINISHED	DRAWING NO.	C-DS1025-06-XXXXX

[illegible]

	Pin Header series connector Product Specification	DOC. No.:ZQ-IPS-DS1025-06		Rev.:A	Page:2/7
		Approved/Date		Checked/Date	Written/Date
		LJC 2008-04-08		~	YCH 2008-04-08

1.0 Scope : This specification covers the requirements for product performance and test methods of CONNFLY's 2.00mm Pin Header Series Connectors of the part numbers specified as bellow. Product shall be of the design, construction and physical dimensions specified in the applicable product drawing.

2.0 Rating :

2.1 Voltage Rating : 30 VDC (rms)

2.2 Temperature Range: storage : -20℃ to +70℃ ;  
operating : 0℃ to +85℃ :

3.0 Test Condition:

All tests shall be performed as bellow conditions unless otherwise specified.

3.1 Temperature range : +15℃ to +35℃


3.2 Humidity range: 25% to 85%

3.3 Atmospheric Pressure : 86KPa to 106KPa


4.0Test Methods and Requirements:

4.1 Examination of product:


Item	Test Description	Test Methods	Requirement
4.1.1	Examination of product (Outward Appearance Structure)	<b>EIA 364-18</b> Shall be confirmed with eyes in accordance with each drawing. Shall be confirmed by using proper measuring instruments.	1).Outward appearance shall be good without such injurious problem 2).Structure shall be meet the design and dimensional requirements of drawing.


		Pin Header series connector Product Specification	DOC. No.:ZQ-IPS-DS1025-06		Rev.:A	Page:3/7
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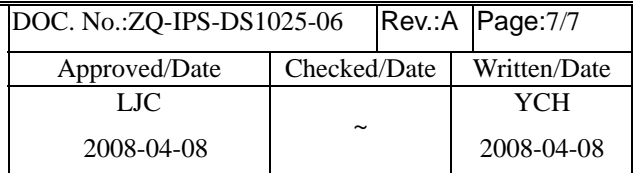
4.2 Electrical Performance:			
Item	Test Description	Test Methods	Requirement
4.2.1	Low Level Contact Resistance	<b>EIA 364-23</b> (or MIL-STD-1344A, Method 3002.1, Test Condition B) Subject mated contacts assembled in housing to 20mV maximum open circuit at 100 mA maximum  The object of this test is to detail a standard method to measure the electrical resistance across a pair of mated contacts such that the insulating films, if present will not be broken or asperity melting will not occur.	1).Initial: 20 mΩ Maximum 2).After test: 20 mΩ Maximum
4.2.2	Insulation Resistance	<b>EIA 364-21</b> (or MIL-STD-202F, Method 302, Test Condition B) Test between adjacent contacts of mated and unmated connector assemblies.  The object of this test procedure is to detail a standard method to assess the insulation resistance of 2.00mm Pin Header connectors. This test procedure is used to determine the resistance offered by insulation connector to a DC potential current through or on the surface of the members.	1).Initial: 1000 MΩ Minimum 2).After test: 1000 MΩ Minimum

		Pin Header series connector Product Specification	DOC. No.:ZQ-IPS-DS1025-06		Rev.:A	Page:4/7
			Approved/Date		Checked/Date	Written/Date
			LJC 2008-04-08		~	YCH 2008-04-08
4.2 Electrical Performance: (Continued)						
Item	Test Description	Test Methods		Requirement		
4.2.3	Dielectric Withstanding Voltage	<b>EIA 364-20</b> (or MIL-STD-202F, Method 301, Test Condition B)  Test between adjacent contacts of mated and unmated connector assemblies.  The object of this test procedure is to detail a test method to prove that a 2.00mm Pin Header connector can operate safely at its rated voltage and withstand momentary over potentials due to switching, surges and/or other similar phenomena.		<b>600 V AC</b> for one minute I  1).No flashover or insulation breakdown		
4.2.4	Contact Current Rating	<b>EIA 364-70 Method B</b>  When measured at an ambient temperature of 25°C . With Power applied to the contacts, the ΔT shall not exceed + applied to the contacts, the 50°C at any point in the 2.00mm Pin Header connector under test  The object of this test procedure is to detail a standard method to assess the current carrying capacity of mated 2.00mm Pin Header connector contacts.		<b>1A at 50°C</b>		



		Pin Header series connector Product Specification	DOC. No.:ZQ-IPS-DS1025-06		Rev.:A	Page:5/7
			Approved/Date		Checked/Date	Written/Date
			LJC 2008-04-08		~	YCH 2008-04-08
4.3 Mechanical Performance:						
Item	Test Description	Test Methods		Requirement		
4.3.1	Durability	<b>EIA 364-09</b> Mate and unmate Connector assemblies for 500 cycles at maximum rated of 200 cycles per hour. The object of this test procedure is to detail a uniform test method for determining the effects caused by subjecting a 2.00mm Pin Header connector to the conditioning action of inserting and extraction, simulating the expected life of the connectors. Durability cycling with a gauge is intended only to produce mechanical stress. Durability performed with mating components is intended to produce both mechanical and wear stress.		1).Shall meet visual requirement, show no physical damage. 2). Shall meet electrical performance		

		Pin Header series connector Product Specification	DOC. No.:ZQ-IPS-DS1025-06		Rev.:A	Page:6/7
			Approved/Date		Checked/Date	Written/Date
			LJC 2008-04-08		~	YCH 2008-04-08
4.4 Environmental Performance:						
Item	Test Description	Test Methods		Requirement		
4.4.1	Salt Spray	MIL-STD-202F, Method 101D, Test Condition B Subject to 4 hours(Tin plated) or 8 hours(Gold plated) at 35℃ with 5% Salt-solution concentration.		1).Shall meet visual requirement, show no physical damage.		
4.4.2	Solderability	EIA 364-52 After one hour steam aging. The object of test procedure is to detail a uniform test methods for determining 2.00mm Pin Header connector solderability. The test procedure contained here utilizes the solder dip technique. It is not intended to test or evaluate solder cup, solder eyelet, other hand-soldered type or SMT type terminations.		The surface of the portion to be soldered shall at least 95%(Tin plating only) covered with new solder coating.		
4.4.3	Resistance to Soldering Heat	1) for WAVE SOLDERING : MIL-STD-202F, Method 210A, Test Condition B. Pre-heat : 80℃, 60 Seconds Temperature : 260 ± 5 °C Immersion duration : 5 ± 0.5 sec.		1). No mechanical defect on housing or other parts.		
		2) for MANUAL SOLDERING : MIL-STD-202F, Method 210A, Test Condition A. Pre-heat : No Temperature : 330 ± 10 °C Immersion duration : 3.5 ± 0.5 sec.				



Test Group (a)		Sample Groups											
Test Item	Test Description	A	B	C	D	E	F	G	H	I	J	K	L
4.1.1	Examination of product	1,6	1,7	1,3	1,3	1,3							
4.2.1	Low Level Contact Resistance	2	6										
4.2.2	Insulation Resistance	3	5										
4.2.3	Dielectric Withstanding Voltage	4	4										
4.2.4	Contact Current Rating	5	3										
4.3.1	Durability		2										
4.4.1	Salt Spray			2									
4.4.2	Solderability				2								
4.4.3	Resistance to Soldering Heat					2							
Number of Test Samples (Minimum)		5	5	5	5	5							

- a. Samples shall be prepared in accordance with applicable manufacturer's instructions and shall be selected at random from current production.
- b. The numbers in the table indicate sequence in which tests are performed.
- c. Precondition samples with 5 cycles durability.
- d. All the tests shall be performed in the sequence, indicated by the number in the columns.
- e. Each test group shall consist of minimum of eight connectors. A minimum of 30 contacts shall be selected and identified. Unless otherwise specified, these contacts shall be used for all measurements.



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## Products Test Report

Products No.:	DS1025-06
Description:	PIN HEADER PITCH 2.00mm R/A TYPE
Test Date:	2009-9-5
Revision:	A

### A: Electrical characteristic:

Item	Test Description	Test Methods	Specification	Result
1	Contact Resistance	EIA-364-18	20m $\Omega$ max.	9.1-12.1
2	Dielectric Withstanding Voltage	EIA-364-20	500VAC 1minute	pass
3	Insulation Resistance	EIA-364-21	1000M $\Omega$ min.	pass

### B: Mechanical characteristic:

4	Durability	EIA-364-09	500 cycles	
4.1	Contact Resistance(after)	EIA-364-18	20m $\Omega$ max.	9.5-12.3
4.2	Dielectric Withstanding Voltage(after)	EIA-364-20	500VAC 1minute	pass
4.3	Insulation Resistance(after)	EIA-364-21	1000M $\Omega$ min.	pass

### C: Environment characteristic:

5	Solderability	EIA-364-52	95% min.	98%
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### D: Test environment:

- a. Temperature: 23°C to 28°C
- b. Humidity: 25% to 85%
- c. Atmospheric Pressure : 86kPa to 106 kPa

Approved by: 卢金春

Checked by: 邵冬琴

Test by: 王美情



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### Test Equipment



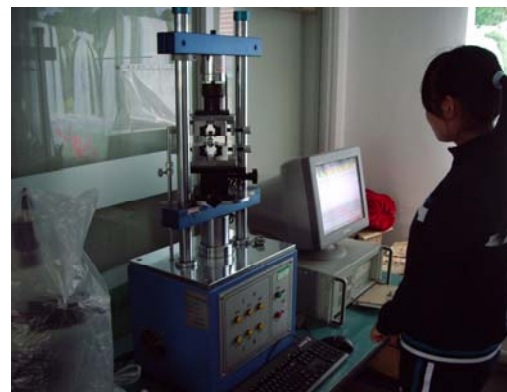
Contact Resistance Tester



Insulation Resistance Tester



D.W.V Tester



Automatic pull & push Tester



Solderability Tester



ポリアミド (PA)

〔社 名〕 商品名、ポリマー種、グレード		グ レード 区 分		ファイラ 含有量 %	比 重	吸水率 24h %	成形収縮率 %		引張 強さ MPa	引張 伸び %	曲げ 強さ MPa	曲げ 弾性率 GPa	アイソット 衝撃値 J/m	ロックウェル 硬さ R, Mスケール	荷重たわみ温度 °C		線膨張率 10 <sup>-3</sup> /K	絶縁破壊 強さ MV/m	アーク 抵抗 s	CTI UL指標値	誘電率	MFR g/10min	燃焼性 クラス/mm
		特徴、ファイラー種、等					流れ方向	直角方向							0.46 MPa	1.82 MPa							
"リルサン" (PA12)	BESN BK F15XN	ブロー用、非強化、超軟質	-	0.99	1.5			23.5	>300	6.9	0.1	NB	D48			26.0							自消性
	BZM 30 O	射出用、GF強化、標準	30	1.26	1.3			93.2	6	143.2	3.1	127	R116	161	150	3.0	28.0					除燃性	
	BZM 23 G9	射出用、GF強化、良撓動性	23	1.22	1.0			88.3	6	137.3	2.8	104	R112	165	133	2.5	22.0					除燃性	
	BZM 43 G9	射出用、GF強化、良撓動性、高剛性	43	1.42	0.9			133.4	4	176.5	4.0	127	R111	188	180	1.3	22.0					除燃性	
	AMN O	射出用、非強化、標準	-	1.02	1.5			47.1	250	72.6	1.1	49	R105	150	55	12.0	30.0			3		自消性	
	AMN O P20	射出用、非強化、準軟質	-	1.03	1.0			45.1	270	35.3	0.7	147	R78	150	55		30.0					除燃性	
	AMN O P40	射出用、非強化、軟質	-	1.03	0.9			44.1	300	34.3	0.4	>294	R80	145	44	12.0	28.0			8		除燃性	
"ベバックス" (PAエラストマー)	AESN O TL	押出用、非強化、硬質	-	1.02	1.8			47.1	250	68.6	1.1	59	R105	150	55	18.0	30.0					除燃性	
	AESN O P40 TL	押出用、非強化、軟質	-	1.03	0.9			44.1	300	34.3	0.4	>294	R60	145	44	18.0	28.0					除燃性	
	AESN BK 60I TL	押出用、非強化、超軟質、ノンブリード	-	0.985	0.5			35.0	320	11.0	0.2	NB		90	42	17.0						除燃性	
	AECN O TL	電線被覆用、非強化、標準	-	1.02	1.5			47.1	250	68.6	1.1	49	R105	150	55	18.0	30.0					除燃性	
	7033 SNOO	耐候性、ショアーD=70	-	1.01	1.2			50.0	380	19.8	0.46	NB		98		20.0						4 e2	
	6333 SAOO	標準、ショアーD=63	-	1.01	1.2	0.81	0.89	51.0	380	15.0	0.3	NB	A99	90		23.0						8 e2	
	6333 SNOO	耐候性、ショアーD=63	-	1.01	1.2	0.81	0.89	51.0	380	15.0	0.3	NB	A99	90		23.0						8 e2	
	5533 SAOO	標準、ショアーD=55	-	1.01	1.2	0.43	0.74	44.1	450	9.0	0.2	NB	A97	66		23.0						8 e2	
	5533 SNOO	耐候性、ショアーD=55	-	1.01	1.2	0.43	0.74	44.1	450	9.0	0.2	NB	A97	66		23.0						8 e2	
	4033 SAOO	標準、ショアーD=40	-	1.01	1.2	0.08	0.83	36.3	480	4.3	0.1	NB	A90	52		22.0						7 e2	
	4033 SNOO	耐候性、ショアーD=40	-	1.01	1.2	0.08	0.83	36.3	480	4.3	0.1	NB	A90	52		22.0						7 e2	
	3533 SAOO	標準、ショアーD=35	-	1.01	1.2	0.02	0.35	34.3	710	1.5	0.0	NB	A83	46		22.0						7 e2	
	3533 SNOO	耐候性、ショアーD=35	-	1.01	1.2	0.02	0.35	34.3	710	1.5	0.0	NB	A83	46		22.0						7 e2	
	2533 SAOO	標準、ショアーD=25	-	1.01	1.2	0.02	0.32	29.4	720	1.2	0.0	NB	A75	42		21.0						6 e2	
2533 SNOO	耐候性、ショアーD=25	-	1.01	1.2	0.02	0.32	29.4	720	1.2	0.0	NB	A75	42		21.0						6 e2		
〔DSMJSRエンブラ株〕 DSM JSR Engineering Plastics																							
"スタニル" (PA46)	TS300	一般グレード	-	1.18	1.8	2.0		130	30	150	3.2	98	R122	285	160	8.5	24	121					V-2/0.80
	TW300	耐熱グレード	-	1.18	1.8	2.0		100	30	150	3.2	98	R122	285	160	8.5							V-2/0.78
	TS200F6	GF強化、一般グレード	30	1.41	1.2	0.2		200	3	280	9.0	110	R120	285	285	3	24	100					HB/0.78
	TQ200F6	GF強化、耐油グレード	30	1.41	1.2	0.2		200	3	280	9.0	110	R120	285	285	3	25						
	TW200F6	GF強化、耐熱グレード	30	1.41	1.2	0.2		200	3	280	9.0	110	R120	285	285	3	27						HB/0.78
	TS350	一般、難燃グレード	-	1.39	1.2	1.9		92	10	150	3.7	50	R121	275	166	8.5	24	85					V-0/0.80
	TE350	耐熱、難燃グレード	-	1.39	1.2	1.9		92	10	150	3.7	50	R121	275	160	8.5	24					V-0/1.59	
	TS250F4	GF強化、難燃、一般グレード	20	1.58	0.9	0.3		167	3	225	8.0	69	R121	285	285	3.7	25	85					V-0/0.80
	*TS250F6	GF強化、難燃、一般グレード	30	1.68	0.8	0.2		185	2	255	10.8	78	R121	285	285	3.0	25					V-0/0.80	
	TE250F6	GF強化、難燃、耐熱グレード	30	1.68	0.8	0.2		185	2	255	10.8	78	R121	285	285	3.0	25					V-0/0.80	
	TW250F6	GF強化、難燃、耐熱グレード、UL94 5VA/2.0	30	1.68	0.8	0.2		185	2	255	10.8	78	R121	285	285	3.0						V-0/0.80	
	TS256F6	低吸水性、低ブリスト、GF強化	30	1.58	0.4	0.18	0.95	165	2	215	11	78	121	285	285							1/32 V-0	
	TS256F8	低吸水性、低ブリスト、GF強化	40	1.65	0.3	0.14	0.90	175	2	235	13	78	121	285	285							1/32 V-0	
	TS250FK33	GF/MD強化、難燃、SMT向グレード	30	1.71	0.8	0.5		95	3	132	5.4	50	R115	285	274								
	TS200K8	M強化、低そりグレード	40	1.51	1.1	1.6		110	4	186	6.4	50	R120	285	246								HB/0.80
	TS200M8	M強化、低そりグレード	40	1.53	1.7	2.3		110	2	185	11.3	37	R116	285	273								
	TS200W4	M強化、メッキグレード	20	1.33	1.8	1.9		107	10	154	4.0	56	R120	285	220								
	TS200B3	CF強化グレード	15	1.23	2.0	0.1		200	3	280	10.0	44	R121	285	285								
	TS200B6	CF強化グレード	30	1.35	1.4	0.02		254	3	338	17.5	60	R121	285	285								
	TS241B3	CF強化、撓動グレード	15	1.20	2.0	0.1		190	2	260	10.0	60	R117	285	285								
TS272B3	CF強化、高撓動グレード	15	1.29	1.5	0.05		170	2	240	9.5	60	R113	285	285									
TS271A2	超高撓動グレード		1.28	1.2	2.0		97	12	127	3.5	88	R118	285	270									
TS271P4	M強化、高剛性撓動グレード		1.46	1.4	0.9		120	4	185	6.7	50	R116	285	270									
TS271F6	GF強化、高剛性撓動グレード		1.48	1.2	0.2		190	3	267	8.9	98	R118	285	285									HB/0.8
〔バイエル〕 Bayer																							
"デュレクン" (PA6)	(試験法: ISO)			1183	飽和 DIN53495			527	527	178	DIN53457	180/IA (kJ/m <sup>2</sup> )											
	B30S	射出成形用、標準グレード、高流動性、良離型性	-	1.14	10	1.2	1.35	80	35	115	2.7	10				75	DIN53752	IEC243-1					V-2/1.47
	B31SK	高流動性、高靱性		1.14	10	1.2	1.35	80	35	115	2.7	10				180	60	8.1	30				V-2/0.4
	B40E	高粘度、厚肉成形品および押出成形用		1.14	10	1.6	1.6	80	>50	105	2.5	8				105	55	8.2	30				HB/1.6
	B40SK			1.14	10	1.2	1.3	85	>50	115	2.7	10				180	60	8.6	30				HB/1.47
	BC30	ポリマー変性、高靱性、ハイサイクル		1.1	9	1.3	1.7	65	50	90	2.2	15				165	65	10.2	35				HB/1.6
	BC303	エラストマー変性、高靱性(低温、成形直後)		1.07	7	1.6	1.6	45	>50	60	1.6	NB				160	60	12.6	32				HB/0.79
	BC40	ポリマー変性、高靱性	-	1.1	9	1.5	1.9	70	>50	95	2.3	18				185</							





# SAFETY DATA SHEET

Page 1 of 4

Revision:1

Date: Nov.3, 2008

**Nylon 46**

NB2008101508



**Xn : Harmful**

## 1.IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Commercial Product Name : Nylon 46, PA-46  
Company : Cixi Zonghan Guozhong Plastic Factory  
Bailiangqiao village, Zonghan Street, Cixi City, Zhejiang Province  
Product code : PA-46  
Emergency telephone number : +86-574-63506868

## 2. HAZARDS IDENTIFICATION

Most important hazards : The product is not classified as dangerous in accordance with Directive 1999/45/EC.  
Environmental properties : Not hazardous.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	Value(s)	CAS No.	EC No.	Symbol(s)	R-Phrase(s)
Nylon 46	: 39.25%	50327-22-5	N/A	N/A	N/A
Polyethylene terephthalate	: 5.76%	25038-59-9	N/A	N/A	N/A
Brominated polystyrene	: 19.23%	88497-56-7	N/A	N/A	N/A
Diantimony trioxide	: 5.76%	1309-64-4	215-175-0	Xn	R40
Glass, oxide, chemicals	: 30%	65997-17-3	266-046-0	N/A	N/A

Full text of R-phrases : See section 16.

## 4. FIRST AID MEASURES

Inhalation : Move to fresh air.  
Oxygen or artificial respiration if needed.  
Call a physician immediately.

Skin contact : Wash off with soap and water.  
Call a physician if needed.

Eye contact : Rinse immediately with plenty of water,  
Call a physician if needed.

Ingestion : Consult a doctor if irritation occurs/persists.

Additional advice : Show this safety data sheet to the doctor in attendance.  
Treat symptomatically.



# SAFETY DATA SHEET

Page 2 of 4

Revision:1

Date: Nov.3, 2008

**Nylon 46**

NB2008101508



## 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray, foam, CO2, dry extinguishing media.
- Extinguishing media which must not be used for safety reason : None.
- Specific hazards : Carbon dioxide, carbon monoxide, hydrogen cyanide.  
The substances/groups of substances mentioned can be released in case of fire.
- Special protective equipment for firefighters : Wear personal protective equipment.  
Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Product is safe. However, the fume (or volatile) that may be released during processing might influence eyes and sometimes give unpleasant odor (if processing is inaccurately high).
- Environmental precautions : Do not flush into surface water.
- Methods for cleaning up : Can be recovered by hand without danger.

## 7. HANDLING AND STORAGE

- Storage : Store in a well ventilated place at room temperature. Container must be closed to prevent moisture. Do not store near heat or flames. Avoid direct sunlight.
- Handling : Spilled pellets may cause severe slipping conditions. Avoid dust formation and accumulation. Work only in a well ventilated place. Protection against fire and explosion: Take precautionary measures against static discharges.
- Packaging material : Keep in properly labelled containers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Personal protective equipment
- Respiratory protection : Use approved respirator if unable to control airborne dust, fumes and vapors.
- Hand protection : Cold pellets: not necessary, Hot-isolated gloves
- Eye protection : Cold pellets: not necessary, Hot-face shield.
- Hygiene measures : When using the material, do not eat, drink or smoke.  
Wash hands prior to breaks or at work's end, clean face as well.
- Environmental exposure controls : No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

# SAFETY DATA SHEET

Page 3 of 4

Revision:1

Date: Nov.3, 2008

**Nylon 46**

NB2008101508



Appearance	:	Solid.
Colour	:	Black.
Odour	:	Odourless.
pH	:	Not applicable.
Boiling point/range	:	No data available.
Melting point/range	:	No data available.
Flash point	:	No data available.
Evaporation rate	:	No data available.
Vapour density	:	No data available.
Solubility in other solvents	:	No data available.
Explosive properties	:	No data available.
Oxidising properties	:	No data available.
Vapour pressure	:	No data available.
Relative density	:	No data available.
Water solubility	:	Insoluble.
Viscosity	:	No data available.
Partition coefficient (n-octanol/water)	:	No data available.

## 10. STABILITY AND REACTIVITY

Stability	:	Stable at normal conditions.
Hazardous decomposition products	:	Carbon dioxide, carbon monoxide, hydrogen cyanide.
Materials to avoid	:	Strong oxidising agents.
Conditions to avoid	:	Heat, flames and sparks.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity	:	Diantimony trioxide (CAS No. 1309-64-4) Oral rat LD50: > 20 g/kg;
Inhalation	:	Dust may cause respiratory irritation.
Skin contact	:	Repeated contact with dust may cause skin irritation.
Eye contact	:	Dust or solids may cause eye irritation due to mechanical action.
Ingestion	:	No data available.
Chronic toxicity	:	Antimony Trioxide is according to directive 67/548/EEC 15 adapt., classified as Xn carcinogen Class 3.

## 12. ECOLOGICAL INFORMATION



# 物質安全資料表

## 一.物品與廠商資料

物品名稱: 黃銅方線

物品編號: C2600W□0.5mm, 0.64mm

製造商或供應商名稱、地址及電話: 名稱: 上海青浦冶金輔料廠

地址: 上海市青浦區新建路1269號

電話: 021-69210841

緊急聯絡電話或傳真電話: 13701863298/021-69211293



## 二.成分辨識資料

純物質:

中英文名稱: 黃銅 (C2600W(H70))

同義名稱: /

化學文摘社登記號碼 (CASNo.): /

危害物質成分 (成分百分比): 無

混合物:

化學物質: 合金化合物

危害物質成分之中英文名稱

濃度或濃度範圍 (成分百分比)

危害物質分類及圖示

無

無

無

## 三.危害辨識資料

最嚴重健康危害效應: 無

環境影響: 無

物理性及化學性危害: 無

特殊危害: 無

主要症狀: 無相關資料

物品危害分類: 無

## 四.急救措施

不同暴露途徑之急救方法:

\*吸入: 本產品不會產生氣味及蒸汽

\*皮膚接觸: 正常操作不會有刺激性氣味發生

\*眼睛接觸: 正常操作不可能接觸眼睛部位

\*食入: 因本產品特性, 故不可能被誤食

最重要症狀及危害效應: 無

對急救人員之防護: 無

對醫師之提示: 無

## 五.滅火措施

適用滅火劑: 不適用

滅火時可能遭遇之特殊危害: 無

特殊滅火程式: 無

消防人員之特殊防護設備: 無

## 六.洩漏處理方法

個人應注意事項: 無

處理方法: 無

## 七.安全處置與儲存方法

處置: 無

儲存: 電鍍產品卷、秋季 溫度: 0-35°C 溼度 ≤ 70%RH

夏季 溫度 20-40°C 溼度 ≤ 70%RH

冬季 溫度 -10-5°C 溼度 ≤ 70%RH

春季 溫度 5-25°C 溼度 ≤ 70%RH

秋季 溫度 10-30°C 溼度 ≤ 70%RH

冬季 溫度 -5-15°C 溼度 ≤ 70%RH

夏季 溫度 20-40°C 溼度 ≤ 70%RH

秋季 溫度 10-30°C 溼度 ≤ 70%RH

冬季 溫度 -5-15°C 溼度 ≤ 70%RH

春季 溫度 5-25°C 溼度 ≤ 70%RH

夏季 溫度 20-40°C 溼度 ≤ 70%RH



## 八. 暴露預防措施

工程控制: 不適用

控制參數:

\* 八小時日時量平均容許濃度/短時間時量平均容許濃度/最高容許濃度:

\* 生物指標: 不適用

個人防護設備:

\* 呼吸防護: 無

\* 手部防護: 佩戴品管手套, 以防止電鍍產品直接與手接觸而產生氧化

\* 眼睛防護: 無

\* 皮膚及身體防護: 無

衛生措施:

## 九. 物理及化學性質

物質狀態: 固態

形狀: 四方

顏色: 黃色

氣味: 無

PH值: 無

沸點/沸點範圍: 無

分解溫度: 無

閃火點: 無

測試方法: /開杯 /閉杯

自燃溫度: 無

爆炸界限: 無

蒸氣壓: 無

蒸氣密度: 無

密度: 無

溶解密度: 無

## 十. 安全性及反應性

安全性: 不適用

特殊狀況下之危害反應: 不適用

應避免之狀況: 不適用

應避免之物質: 不適用

危害分解物: 不適用

## 十一. 毒性資料

急毒性: 不適用

局部效應: 不適用

致敏性: 不適用

慢性或長期毒性: 不適用

特殊效應: 不適用

## 十二. 生態資料

可能之環境影響/環境流佈: 不適用

## 十三. 廢棄處理方法

廢棄處理方法: 報廢後變賣

## 十四. 運送資料

國際運送規定: 無

聯合國編號: 無

國內運送規定: 無

特殊運送方法及注意事項: 無

## 十五. 法規資料

適用法規: 無

## 十六. 其他資料

參考文獻: 無

製表單位

名稱: 上海青浦冶金輔料廠

地址: 上海市青浦區新達路1269號

電話: 021-69210841

傳真: 021-69211293

製表人

職稱: 品管

姓名(簽章): 胡建超

日期: 2008.05.15





## Test Report

No. SHAEC1000386518

Date: 22 Jan 2010

Page 1 of 5

NINGBO CONNFLY ELECTRONIC CO.,LTD

EAST INDUSTRY ZONE KUANGYAN TOWN CIXI NINGBO,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : PA-46 PLASTIC

SGS Job No. : SP10-001324 - SH

Model No. : PA-46 PLASTIC

Date of Sample Received : 18 Jan 2010

Testing Period : 18 Jan 2010 - 22 Jan 2010

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

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

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

Signed for and on behalf of  
SGS-CSTC Ltd.

*Sandy Hao*

Hao Jinyu, Sandy  
Lab Manager

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## Test Report

No. SHAEC1000386518

Date: 22 Jan 2010

Page 2 of 5

### Test Results :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA10-003865.018	Black plastic pellet

### Remarks :

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

### RoHS Directive 2002/95/EC

#### Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5) Determination of PBBs / PBDEs content by GC-MS.

Test Item(s)	Limit	Unit	MDL	018
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	22
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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SHCHEM 3083529



## Test Report

No. SHAEC1000386518

Date: 22 Jan 2010

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Test Item(s)	Limit	Unit	MDL	018
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

### Notes :

- (1) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC

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SGS-CTC (Shanghai) Co., Ltd.  
Testing Center

3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233  
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233  
0000016680

TEL: (86-21) 61402553 FAX: (86-21) 64953679 [www.cn.sgs.com](http://www.cn.sgs.com)  
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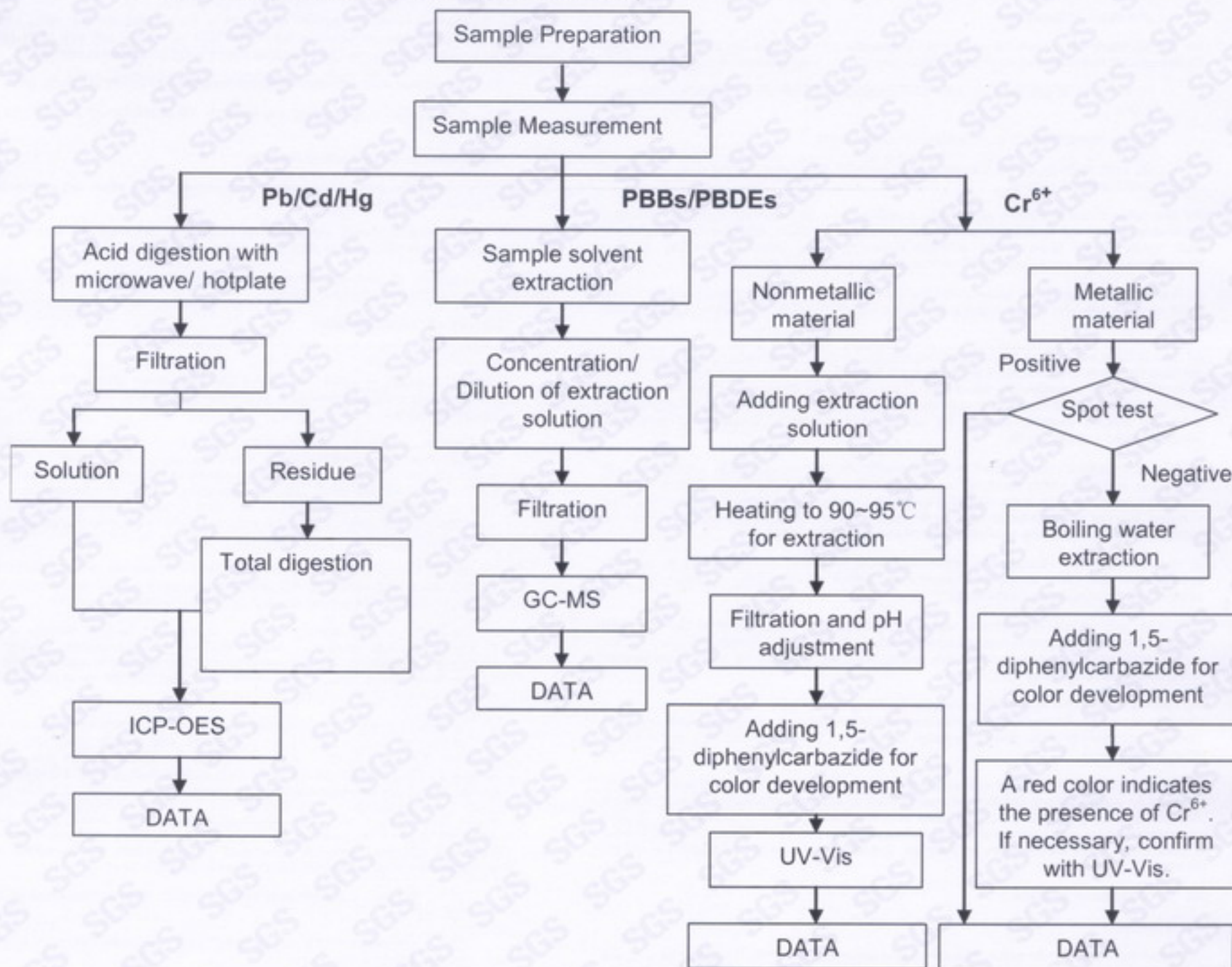
**SHCHEM 3083528**

Member of the SGS Group (SGS SA)



### ATTACHMENTS

- 1) Name of the person who made measurement: Jeff Zhang/Even Xu/Frank Fang/Elm Lin
- 2) Name of the person in charge of measurement: Terry Wang/Phoebe Shen
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> and PBBs/PBDEs test method excluded)



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## Test Report

No. SHAEC1000386518

Date: 22 Jan 2010

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Sample photo:



SGS authenticate the photo on original report only

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

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## Test Report

No. SHAEC1000386511

Date: 22 Jan 2010

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NINGBO CONNFLY ELECTRONIC CO.,LTD

EAST INDUSTRY ZONE KUANGYAN TOWN CIXI NINGBO,CHINA

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

SGS Job No. : SP10-001324 - SH

Model No. : SQUARE PIN

Date of Sample Received : 18 Jan 2010

Testing Period : 18 Jan 2010 - 22 Jan 2010

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

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

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

Signed for and on behalf of  
SGS-CSTC Ltd.

*Sandy Hao*

Hao Jinyu, Sandy  
Lab Manager

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SGS-CSTC Standards Technical Service (Shanghai) Co., Ltd.  
Testing Center

3<sup>rd</sup> Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233

中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

0000016676

T&E (86-21) 61402553 F&E (86-21) 64953679

HL: (86-21) 61402594 HL: (86-21) 54500353

[www.cn.sgs.com](http://www.cn.sgs.com)

[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**SHCHEM 3062842**



## Test Report

No. SHAEC1000386511

Date: 22 Jan 2010

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### Test Results :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA10-003865.011	Golden metal pin

### Remarks :

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

### RoHS Directive 2002/95/EC

#### Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.

Test Item(s)	Limit	Unit	MDL	011
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	9
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	◇	Negative

### Notes :

- (1) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC
- (2) ◇ Spot-test:  
Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;  
The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.  
◇ Boiling-water-extraction:  
Negative = Absence of CrVI coating; Positive = Presence of CrVI coating  
The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.  
For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

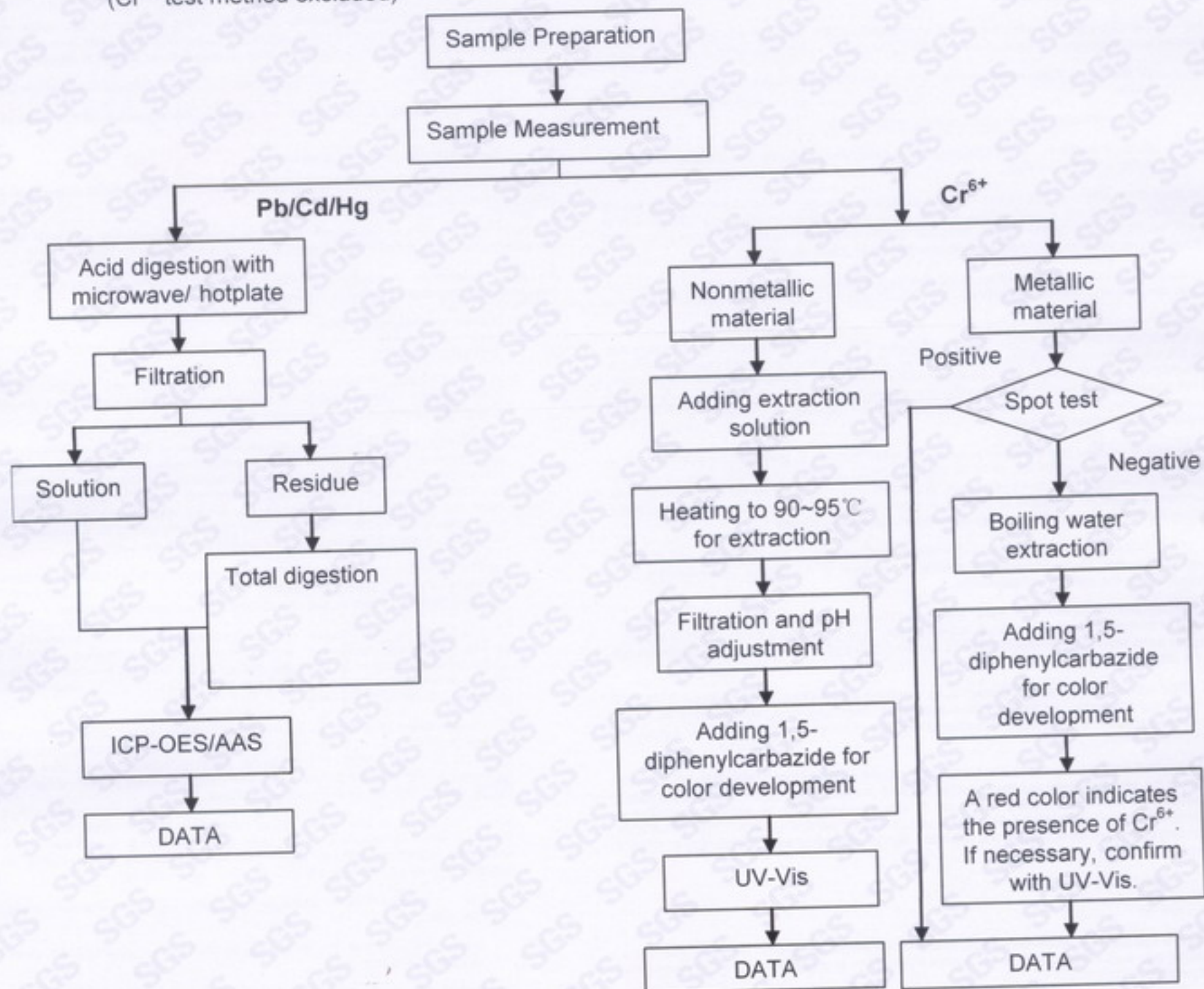
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### ATTACHMENTS

- 1) Name of the person who made measurement: Jeff Zhang/Even Xu/Frank Fang/Elm Lin
- 2) Name of the person in charge of measurement: Terry Wang/Phoebe Shen
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> test method excluded)



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## Test Report

No. SHAEC1000386511

Date: 22 Jan 2010

Page 4 of 4

Sample photo:



SGS authenticate the photo on original report only

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

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Product Technology Service

Report No.: NB2009031931



## Test Report

Testing institute : Product Technology Service (Ningbo) Co., Ltd.  
6&7F, 59#, Huayu Road,  
Yinzhou District, Ningbo 315192 P.R.China

Applicant : Ningbo Connfly Electronic Co., Ltd  
No.88 Dingtai Road, Xiaolin Town, Cixi, Ningbo

Test item(s) : Plastic

Model/Type : PA-46

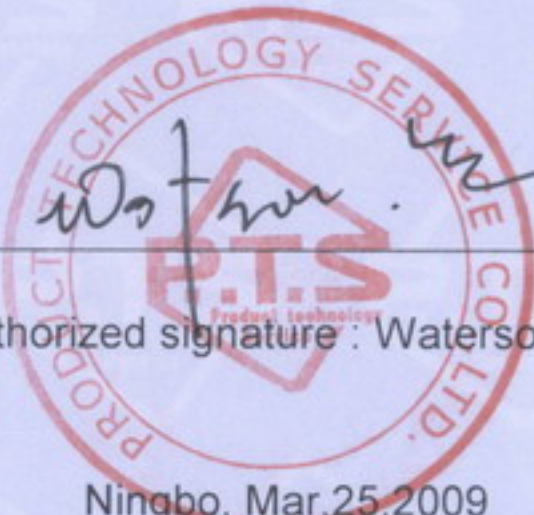
Sample Description : Black

Material : /

Sample receive date : Mar.20,2009  
Completes date : Mar.25,2009

Testing location : Product Technology Service (Ningbo) Co., Ltd.

Test specification(s) : Fifteen (15) Substances of Very High Concern (SVHC)  
Based on the list published by European Chemicals Agency (ECHA) Member  
State Committee (MSC) on 2008 Oct 28, regarding Regulation (EC) No  
1907/2006 concerning the REACH.

  
Authorized signature : Waterson Liu  
Ningbo, Mar.25,2009

The test results exclusively refer to the samples examined. This report shall not be reproduced except in full without written approval and does not authorize the use of Product Technology Service (Ningbo) Co., Ltd. label

Product Technology Service (Ningbo) Co., Ltd.

6 & 7F, Huayu Road, 59#  
Yinzhou District  
Ningbo 315192 P.R.China  
<http://www.pts-lab.com>  
NO: RC-SC-R149/01

Tel: 86-574-83036506  
Fax: 86-574-83036508  
P.R.:315192  
E-mail: [info@pts-lab.com](mailto:info@pts-lab.com)

宁波中普检测技术服务有限公司  
浙江省宁波市  
鄞州中心区华裕路  
59号6&7楼  
<http://www.pts-lab.com>

电话: 86-574-83036506  
传真: 86-574-83036508  
邮编: 315192  
邮箱: [info@pts-lab.com](mailto:info@pts-lab.com)



Test specification : Fifteen (15) Substances of Very High Concern (SVHC)  
 Test method : Refer to test item(s) list below  
 Requirement : Less than 1000 mg/kg (0.1%) for single test item

Tested sample: Plastic				
Parameter	Unit	Test Method	Result	MDL
Anthracene (CAS No.: 120-12-7)	mg/kg	With reference to ZEK 01.1-08, GC-MS	ND	1
4,4'-Diaminodiphenylmethane (CAS No.: 101-77-9)	mg/kg	With reference to EN 14362-1: 2003 / EN 14362-2: 2003 / ISO / TS 17234: 2003 (without cleavage), GC/MS or LC/MS	ND	30
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)	mg/kg	With reference to EN 14372: 2004, GC-MS	ND	30
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) (CAS No.: 81-15-2)	mg/kg	With reference to EPA 3550C: 2007, GC-MS	ND	10
Bis(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7)	mg/kg	With reference to EN 14372: 2004, GC-MS	ND	30
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ - HBCDD, $\gamma$ - HBCDD, $\gamma$ - HBCDD) CAS No.: 25637-99-4, 3194-55-6 (CAS No.: 134237-51-7, 134237-50- 6, 134237-52-8)	mg/kg	With reference to EPA 3540C: 1996, GC-MS	ND	10
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	mg/kg	With reference to EPA 3540C: 1996, GC-MS	ND	100
Benzyl butyl phthalate (BBP) (CAS No.: 85-68-7)	mg/kg	With reference to EN 14372:2004, GC-MS	ND	30
Bis(tributyltin)oxide * (CAS No.: 56-35-9)	mg/kg	With reference to BS ISO 17353: 2004, GC-MS	ND	30
Cobalt dichloride * (CAS No.: 7646-79-9)	mg/kg	With reference to EPA 3052: 1996 and EN 14582: 2007, ICP-AES and IC	ND	100
Diarsenic pentaoxide * (CAS No.: 1303-28-2)	mg/kg	With reference to EPA 3052: 1996, ICP-OES	ND	15
Diarsenic trioxide * (CAS No.: 1327-53-3)	mg/kg	With reference to EPA 3052: 1996, ICP-OES	ND	15
Triethyl arsenate * (CAS No.: 15606-95-8)	mg/kg	With reference to EPA 3052: 1996, ICP-OES	ND	20
Lead hydrogen arsenate * (CAS No.: 7784-40-9)	mg/kg	With reference to EPA 3052: 1996, ICP-OES	ND	50
Sodium dichromate, dihydrate * (CAS No.: 7789-12-0, 10588-01-9)	mg/kg	With reference to EPA 3060A: 1996, UV-Vis	ND	30

Note : (1) 1mg/kg=1ppm=0.0001% (2) ND = Not detected, NA = Not applicable

(3) MDL = Method Detection Limit

(4) \*= calculated by the test result of Tributyl Tin or selected element (i.e. Arsenate, Lead, Cobalt or Cr (VI), respectively)

Sample photo(s), see annex 1

-----End-----



Product Technology Service

Report No.: NB2009031931

## ANNEX 1

Sample photos, consists of 1 page



Page 3 of 3



1:Plastic

Product Technology Service (Ningbo) Co., Ltd.

6 & 7F, Huayu Road, 59#  
Yinzhou District  
Ningbo 315192 P.R.China

<http://www.pts-lab.com>

NO: RC-SC-R149/01

Tel: 86-574-83036506

Fax: 86-574-83036508

P.R.:315192

E-mail: [info@pts-lab.com](mailto:info@pts-lab.com)

宁波中普检测技术服务有限公司

浙江省宁波市  
鄞州中心区华裕路  
59号6 & 7楼

<http://www.pts-lab.com>

电话: 86-574-83036506

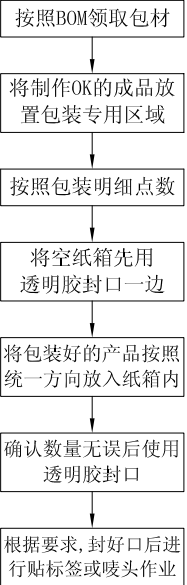
传真: 86-574-83036508

邮编: 315192

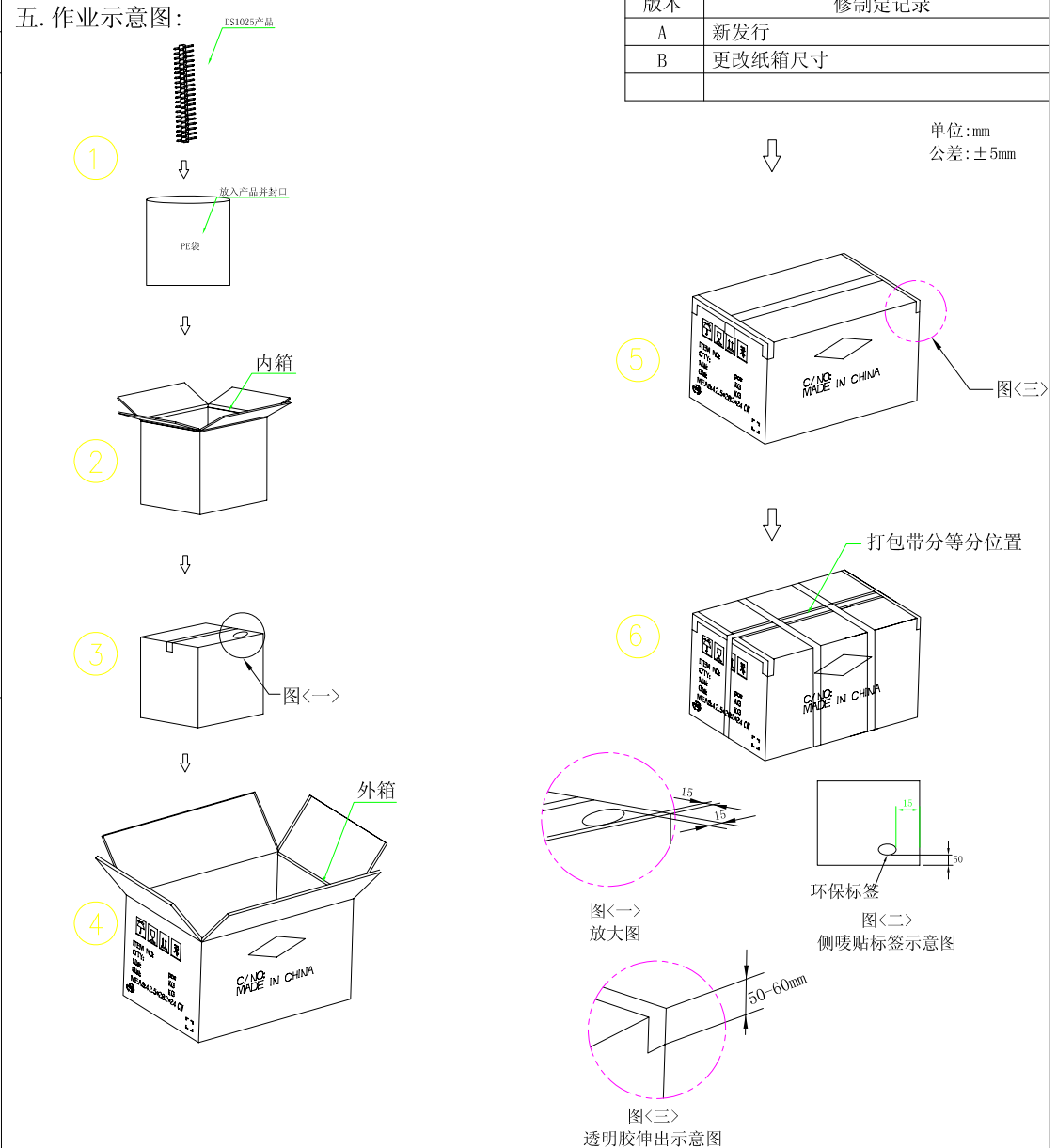
邮箱: [info@pts-lab.com](mailto:info@pts-lab.com)



产品包装作业规范

文件编号	版次	制作日期	适用产品系列	客户类别																																																																	
PS-DS1025-001	B	2008-05-30	DS1025 (PE袋包装)	普通型																																																																	
一. 作业流程图:		二. 作业说明:																																																																			
		<ol style="list-style-type: none"><li>根据物料清单备好所需包材.</li><li>将已检验合格的产品搂成一小捆整齐的竖直装入PE袋内, 数量符合包装明细后放入干燥剂一袋并封好PE袋口, 且在PE袋上贴好环保标签和数量标签, 贴在PE袋正中间位置.</li><li>将已贴好标签的PE袋依次装入内箱, 确认数量无误后用透明胶以“一”字封好内箱, 并贴好环保标签如图&lt;一&gt;所示.</li><li>装外箱之前在纸箱底部先放入干燥剂四袋, 将内箱依次装入外箱内, 待外箱数量符合包装明细后再放入干燥剂四袋, 并用透明胶以“工”字封好箱, 外箱标签贴在右下角如图&lt;二&gt;所示. (如有其它标签则直接往环保标签上垒积贴示, 靠右对齐, 上下间隔5mm) 胶带伸出长度为50-60mm如图&lt;三&gt;所示.</li><li>出货时检查无误后必须用打包机打好打包带, 打包带位置如图&lt;四&gt;所示.</li><li>详细包装明细见第2/2页, 栈板堆放示意图请见附页.</li></ol>																																																																			
三. 注意事项:		四. 包材物料 (BOM) 表 (外销):																																																																			
<ol style="list-style-type: none"><li>每袋每盒每箱内产品不可多装; 少装; 混装.</li><li>在未装满之纸箱须使用泡棉或其它不影响品质之物品填充或做拼箱处理, 且在纸箱唛头或标签上注明尾数.</li><li>确认所使用包材无误.</li><li>外箱包装上产品系列号文字及其它文字书写应规范统一, 字体清楚工整.</li><li>透明胶带粘贴应平整, 均匀; 纸箱盖子封上无重叠, 歪斜现象.</li><li>外箱抗破裂强度: 12Kgf以上, 内箱: 6Kgf以上.</li></ol>		<table><tr><th>序号</th><th>名称</th><th>数量</th><th>料 号</th><th>备 注</th></tr><tr><td>1</td><td>外箱</td><td>1</td><td>PK-425282240-07</td><td>长42.5宽28.2高24cm</td></tr><tr><td>2</td><td>内箱</td><td>4</td><td>PK-274201115-04</td><td>长27.4宽20.1高11.5cm</td></tr><tr><td>3</td><td>PE袋</td><td>60</td><td>PE-150180-06-3</td><td></td></tr><tr><td>4</td><td>环保标签</td><td>68</td><td>PK-014</td><td></td></tr><tr><td>5</td><td>数量标签</td><td>68</td><td>PK-015</td><td></td></tr><tr><td>6</td><td>干燥剂</td><td>8</td><td>PK-001</td><td></td></tr><tr><td>7</td><td>大透明胶</td><td>若干</td><td>PK-004</td><td>无晨翔或正青商标, 53mm</td></tr><tr><td>8</td><td>打包袋</td><td>若干</td><td>PK-007</td><td>无晨翔或正青商标</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>			序号	名称	数量	料 号	备 注	1	外箱	1	PK-425282240-07	长42.5宽28.2高24cm	2	内箱	4	PK-274201115-04	长27.4宽20.1高11.5cm	3	PE袋	60	PE-150180-06-3		4	环保标签	68	PK-014		5	数量标签	68	PK-015		6	干燥剂	8	PK-001		7	大透明胶	若干	PK-004	无晨翔或正青商标, 53mm	8	打包袋	若干	PK-007	无晨翔或正青商标																				
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五. 作业示意图:



核准:

审核:

制作:

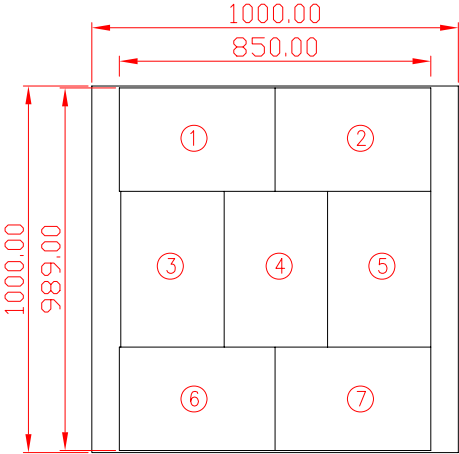
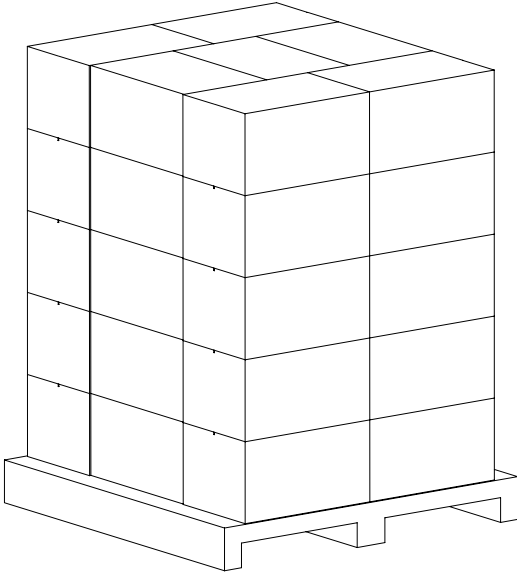
页码: 1 / 2



# 产品包装作业规范

[illegible]

产 品 包 装 作 业 规 范 - 附 页

文件编号	版次	制作日期	适用产品系列	客户类别
PS-DS1025-001	B	2008-05-30	DS1025 (PE袋包装)	普通型
栈板摆放示意图				
一. 作业说明: 1. 仓库接到业务指令需加栈板出货时, 先从仓库领取标准栈板1米*1米 (栈板材料为锯木, 在海关检验时不用熏蒸). 2. 栈板领取后按图<一>顺序进行摆放, 平放堆5层, 每层7箱. 3. 堆好后用保鲜膜进行缠封, 除栈板底部外, 其余5个面均需覆盖, 层数以稳固性为主.		货物摆放三视图 <div>             单位: mm              比例: 1:20           </div> <div>  <div>               图&lt;一&gt;                最低层堆入俯视图             </div> </div> <div>  <div>               图&lt;一&gt;                堆放三维图             </div> </div> <div>           适用纸箱规格: 42. 5*28. 2*24cm         </div>		
二. 注意事项: 1. 摆放前先检查栈板稳固性及其质量, 以保证足够承受能力. 2. 纸箱堆放不能超出栈板. 3. 保鲜膜缠绕不要太多太厚以免浪费成本及增加客户取货工时. 4. 堆放后尽量放置平坦及干燥地区, 以免产品质量受到影响. 5. 不同产品同时出同一家客户, 一种产品未摆满一栈板可以与其它产品拼满一栈板处理, 且在纸箱上注明唛头.		<div>             核准:                      审核:                      制作:           </div> <div>             PS-DS1025-001附页: 栈板摆放示意图           </div>		