

CHANG CHUN PLASTICS CO., LTD. 7TH FL., 301, SONG KIANG ROAD, TAIPEI, TAIWAN, R.O.C. Report No : CE/2004/34163 Date : 2004/04/08 Page : 1 of 10

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

<u>Type of Product</u> <u>Style/Item No</u> <u>Sample Received</u> <u>Testing Date</u>

POLYBUTYLENE TEREPHTHALATE
PBT 4130
2004/03/31.
2004/03/31 TO 2004/04/08

Test Result

: - Please see the next page -

Operation Manager

Signed for and on behalf of SGS TAIWAN LTD.

TW 0687468

長春人造樹脂廠股份有限公司

台北市松江路三〇一號七樓

CHANG CHUN PLASTICS CO., LTD.

NO.301, SONGKIANG ROAD, 7TH FL., TAIPEI, 10477 TAIWAN

CCP PBT 4130 PROPERTIES

MATERIAL : PB14130 VENDOR: CHANG CHUN PLASTICS CO., LTD.

TEST ITEM	TEST METHOD	UNIT	QC RANGE
比重 (SPECIFIC GRAVITY)	ASTM D-792		1.63-1.67
友份 (ASH)		%	28-32
抗張強度 (TENSILE STRENGIH)	ASTM D-638	KG/CM ²	MIN1500
伸長率 (ELONGATION)	CCP METHOD	%	MIN3.5
抗折 強度 (FLEXURAL STRENGTH)	ASTM D-790	KG/CM ²	MIN1800
抗折模数 (MODULUS)	ASTM D-790	KG/CM ²	MIN75000
街擊強度 (IMPACT STRENGTH, NOTCHED)	ASTM D256	КС-СМ/СМ	MIN7.0
熔融指数 (MELT INDEX)	ASTM D-1238	g/10MIN	12-17

MINCHALI

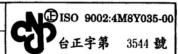
REPORT OF MATERIAL TEST

DATE: 0CT.01,2002

Customer:

Commodity: C 2680 R BRASS STRIP (H)

.



Applied Standard: CNS 4383 Brass Sheets, Plates and Strips

					Chemical	Analysis T	lest		
	Size	of Prod	luct	Cu(%)	Fe(%)	Pb(%)	Zn(%)		
Work No.	Thickness (mm)	Width (mm)	Length (mm)						
	Standard		64.00 - 68.00	max. 0.050	max. 0.070	REM.			
18A396B	0.600	34.000		64.850	0.035	0.004	REM.		
								,	

	Mechanical & Physical Test									
			uct	Dimension Test		Tension Test		Hardness Test	Grain Size	Electric
Work No.			Length (mm)	Thickness (mm)	Width (mm)	Tensile Strength (kgf/mm ²)	Elongation (%)	HV	(mm)	Conductirity (%)
				-	- (-) 0.10 - (+) 0.0		0 42 - 55 -			-
18A396B	0.600	34.000		GOOD.	GOOD.	48.25	21.92	150.0 - 150.0	-	24.4
				-						

MINCHALI METAL INDUSTRY CO., LTD. 11, Pei Yuan Road, Chung Li Citv. Taiwan, R. O. C.



CHANG CHUN PLASTICS CO., LTD. 7TH FL., 301, SONG KIANG ROAD, TAIPEI, TAIWAN, R.O.C.

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	Anna and				Result	
Test Item(s):	Unit	Method	MDL	NO.1		
Organic-tin coumpounds						
Triphenyl Tin(TPT)(CAS NO:000668-34-8)	ppm	With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.001	N.D.		
Tributyl Tin(TBT)	ppm	With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.001	N.D.		
					Result	
Test Item(s):	Unit	Method	MDL	NO.1		
PBBs(Polybrominated biphenyls)(CAS NO:67774- 32-7)	%	With reference to 83/264/EEC. Analysis was performed by HPLC/DAD/MS.	0.0005	N.D.		
					Result	
Test Item(s):	Unit	Method	MDL	NO.1		
PBBEs(PBDEs)(Polybromin ated biphenyl ethers)	%	With reference to 83/264/EEC. Analysis was performed by HPLC/DAD/MS.	0.0005	N.D.		
					Result	
Test Item(s):	Unit	Method	MDL	NO.1		
PCBs(Polychlorinated Biphenyls)(CAS NO:001336-36-3)	ppm	With reference to US EPA 8082,89/677/EEC. Analysis was performed by GC/ECD/MS.	0.5	N.D.		
Track Thomas (-)-					Result	
Test Item(s): Polychlorinated	Unit	Method	MDL	NO.1		
Naphthalene	ppm	Analysis was performed by GC/MS.	5	N.D.		
				Result		
Test Item(s):	Unit	Method	MDL	NO.1		
CTs(Polychlorinated erphenyls)	ppm	With reference to US EPA 8082,89/677/EEC. Analysis was performed by GC/ECD/MS.	0.5	N.D.		

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CHANG CHUN PLASTICS CO., LTD. 7TH FL., 301, SONG KIANG ROAD, TAIPEI, TAIWAN, R.O.C. Report No : CE/2004/34163 Date : 2004/04/08 Page : 10 of 10

				Result		
Test Item(s):	Unit Method		MDL	NO.1		
PVC free(CAS No:9002-86- 2)	**	Analysis was performed by FTIR/ATR AND Pyro- GC/MS.	-	N.D.		
					Result	
Test Item(s):	Unit	Method	MDL	NO.1		
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.		
Cadmium (Cd) pp		ICP-AES After As per EN 1122, Method B:2001 or other acid digestion.	2	N.D.		
EPA		ICP-AES After As per US EPA 3052 or other acid digestion.	2	N.D.		
EP		ICP-AES After As per US EPA 3050B or other acid digestion.	2	5.9		
Lead (Pb)	ppm	ICP-AES After As per 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) " ----" = Not Applicable

- (5) " -" = Not Regulation
- (6) * = Results shown are of the adjusted analytical results.
- (7) **= Qualitative analysis(No Unit)
- (8) Negative = Undetectable / Positive = Detectable.

- END -

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TW 0687459



MINCHALI METAL INDUSTRY CO., LTD. 11, PEI YUAN ROAD, CHUNG LI CITY, TAIWAN, R.O.C.

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Report No. : CE/2004/63189 Date : 2004/07/01 Page : 1 of 2

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

<u>Type of Product</u> <u>Style/Item No</u> <u>Manufacturer/Vendor</u> <u>Country of Origin</u> <u>Sample Received</u> Testing Date 黄銅 C2680(65/35) MINCHALI METAL INDUSTRY CO., LTD. TAIWAN 2004/06/24 2004/06/24 TO 2004/07/01

Test Result

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eration Manager

Signed for and on behalf of SGS TAIWAN LTD.

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Sis Iniwa 111 台灣檢驗科技股份有限公司

No. 136-1 Wu Kung Road, Wuku Industrial Zone, Tapei County, Tanvan, /台北縣五股工業區五工路136-1號 【公司 1(886-2) 2299-3939 1(886-2) 2299-3237 www.tw.sgs.com

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MINCHALI METAL INDUSTRY CO., LTD. 11, PEI YUAN ROAD, CHUNG LI CITY, TAIWAN, R.O.C.

Report No.	: CE/2004/63189
Date	: 2004/07/01
Page	2 of 2

Test Result

PART NAME NO.1

: GOLDEN COLORED METAL

Test Item (s):	Unit	Method	MDL	No.1		Spec.
EN 71 PART 3 Heavy metal content		As per EN 71 PART 3 : 1994 (A1 : 2000) (EN 71 & BS 5665 are identical)				Spec.
Soluble Lead (Pb)	ppm	ICP-AES	5	< 5.0		
Soluble Antimony (Sb)	ppm	ICP-AES	5	< 5.0		90
Soluble Arsenic (As)	ppm	ICP-AES	2.5	< 2.5		60
Soluble Barium (Ba)	ppm	ICP-AES	10	< 10.0		25
Soluble Cadmium (Cd)	ppm	ICP-AES	5	< 5.0		1000
Soluble Chromium (Cr)	ppm	ICP-AES	5	< 5.0		75
Soluble Mercury (Hg)		ICP-AES	5			60
Soluble Selenium (Se)		ICP-AES	5	< 5.0		60 500

Test Item (s):		Method				
	Unit		MDL	No.1		Spe
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.		-
Cadmium (Cd)		ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.		-
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.		-
Lead (Pb)		ICP-AES after as per US EPA 3050B or other acid digestion.	2	33.7		-

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

- (2) ppm = mg/kg
- (3) MDL = Method Detection Limit
- (4) " " = No Regulation

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