

苏州仪元科技有限公司
SUZHOU IE-TECH CO.,LTD.

出貨檢驗報告

OUTGOING QUALITY INSPECTION REPORT

客戶編號 CUSTOMER P/N & REV	FC000222K21XXXXXXXX00	公司編號 LW P/N & REV	FC000222K21XXXXXXXX00
出貨數量 OUTGOING QTY	50 PCS		
抽樣標準 SAMPLINGSTANDARD	GB2828 II= I AQL: 1.0		
抽樣數量 SAMPL. QTY	5 PCS		
檢驗項目與結果 INSPECTION CONTENTS & RESULTS			
測試項目	測試條件/測試設備	特性要求	結果
外觀檢驗	目測	表面平整光滑清潔, 無 明顯刮痕雜質、異色、 變形	合格
尺寸測量	游標卡尺、千分尺、投影儀	符合圖紙	合格
線路導通	目視	全檢	合格
允許使用溫度		-40℃ - +105℃	合格
線路絕緣	兆歐表	全檢	合格
耐焊性	320℃ ± 5℃, 小於 2S 內浸潤、 電烙鐵	無分層、無氣泡	合格
包裝方式	100 片 1 小包		
最終結論 FINAL REFREE & REMARK			
合 格			
填寫 Prepared By: 蔣汪榮		核准 Approved By: 王維鵬	

地址: 中國·蘇州市高新區嵩山路 143 號
電話: 86-512-66900980
傳真: 86-512-66905339
E-mail: fpc@sie.com.cn
網址: http://www.sie.com.cn

Add: 143songshanRD, SuzhouJiangsu, China
Tel: 86-512-66900980
Fax: 86-512-66905339
E-mail: fpc@sie.com.cn
Website: http://www.sie.com.cn


苏州仪元科技有限公司
SUZHOU IE-TECH CO.,LTD.

尺寸测量报告

DIMENSION REPORT

产品名称及版本号 FC000222K21XXXXXXXX00

Dwg No & Rev:

测量日期 2009.11.13

Measure Date:

测量 Prepared By: 蒋汪荣

审核 Checked By: 刘红建

基本尺寸 BASIC DIMENSION							
外形尺寸 PROFILE							
规格及公差 SPEC & TOL (mm)		测量结果 RESULT (mm)					结论 RESULT
1	20.5±0.5	20.557	20.589	20.554	20.555	20.557	(手工剪) 合格
2	21.5±0.5	21.558	21.598	21.591	21.588	21.598	(手工剪) 合格
3	4±0.5	4.120	4.114	4.017	4.025	4.058	(手工剪) 合格
4	0.3±0.05	0.301	0.291	0.301	0.300	0.300	合格
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

地址: 中国·苏州市高新区嵩山路 143 号

电话: 86-512-66900980

传真: 86-512-66905339

E-mail: fpc@sie.com.cn

网址: http://www.sie.com.cn

Add: 143songshanRD, SuzhouJiangsu, China

Tel: 86-512-66900980

Fax: 86-512-66905339

E-mail: fpc@sie.com.cn

Website: http://www.sie.com.cn

▲ 苏州仪元科技有限公司
SUZHOU IE-TECH CO.,LTD.

产 品 构 成 报 告

结构	单面 (✓)	双面 ()	
铜箔	电解 ()	压延 (✓)	
铜箔厚	0.035mm ()	0.05mm ()	0.018mm (✓)
基膜材料	聚酯 (PET)	聚酰亚胺 (PI) [✓]	
基膜膜厚	0.025mm (✓)	0.05mm ()	0.0125 ()
盖膜材料	聚酯 (PET)	聚酰亚胺 (PI) [✓]	阻焊油墨
盖膜厚	0.025mm (✓)	0.05mm ()	0.0125mm ()
补强板	0.175PI		
电镀	镀金 (✓)	镀锡 ()	抗氧化 ()
附图纸	是 (✓)	否 ()	
备 注			

地址：中国·苏州市高新区嵩山路 143 号

电话：86-512-66900980

传真：86-512-66905339

E-mail: fpc@sie.com.cn

网址: http://www.sie.com.cn

Add: 143songshanRD, SuzhouJiangsu, China

Tel: 86-512-66900980

Fax: 86-512-66905339

E-mail: fpc@sie.com.cn

Website: http://www.sie.com.cn



Test Report

No. SH9141182/CHEM

Date: Jul. 23, 2009

Page 1 of 7

SUZHOU IE-TECH CO., LTD.
143 SONGSHAN RD, HI-TECH DISTRICT, SUZHOU

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

Sample Name : FPC
 SGS Ref No. : SUZ12025445
 Buyer : EXPORT
 Main substance : Cu, PI
 Supplier : TAIFLEX SCIENTIFIC CO., LTD KUNSHAN APLUS TEC.CORPORATION

Sample Receiving Date : Jul.20, 2009
 Testing Period : Jul.20 – 23, 2009

Test Requested : (1) In accordance with the RoHS Directive 2002/95/EC, and its amendment directives
 (2) To determine the PFOS (Perfluorooctane Sulfonates) content of the submitted samples.

Test Method : (1-1) With reference to IEC 62321:2008 for Cadmium content.
 Analysis was performed by ICP
 (1-2) With reference to IEC 62321:2008 for Lead content.
 Analysis was performed by ICP
 (1-3) With reference to IEC 62321:2008 for Mercury content.
 Analysis was performed by ICP.
 (1-4) With reference to IEC 62321:2008 for Hexavalent Chromium by
 Colorimetric Method.
 (1-5) With reference to IEC 62321:2008 for PBBs / PBDEs content.
 Analysis was performed by GC/MS.
 (2) With reference to EPA 3550C: 2007.
 Analysis was performed by High Performance Liquid Chromatograph-Mass Spectrometer (HPLC-MS).

Test Results : Please refer to next pages

Signed for and on behalf of
 SGS-CSTC Chemical Laboratory

Sandy Hao

Sandy Hao
 Lab Manager

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the findings at the time of its intervention only and within the limits of Client's instructions. If any: The Company's sole responsibility is to its Client and this document does not generate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.



SGS - Solon's Technical Services Co., Ltd. 3rd Building, No. 889, Yishan Road, Shanghai, China 200233 TEL: (86-21) 61402553 FAX: (86-21) 64953879 www.cn.sgs.com
 Shanghai Branch, SGS-CSTC Chemical Laboratory. 中国·上海·宜山路889号3号楼 邮编: 200233 HL: (86-21) 61402594 HL: (86-21) 54500353 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)



Test Report

No. SH9141182/CHEM

Date: Jul. 23, 2009

Page 2 of 7

Test results by chemical method

(1) Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs / PBDEs Content (Unit: mg/kg)

Test Item(s):	Method (refer to)	1*	MDL	RoHS Limit
Cadmium(Cd)	(1-1)	ND	2	100
Lead (Pb)	(1-2)	ND	2	1000
Mercury (Hg)	(1-3)	ND	2	1000
Hexavalent Chromium (CrVI)	(1-4)	ND	2	1000
Sum of PBBs	(1-5)	ND	-	1000
Monobromobiphenyl		ND	5	-
Dibromobiphenyl		ND	5	-
Tribromobiphenyl		ND	5	-
Tetrabromobiphenyl		ND	5	-
Pentabromobiphenyl		ND	5	-
Hexabromobiphenyl		ND	5	-
Heptabromobiphenyl		ND	5	-
Octabromobiphenyl		ND	5	-
Nonabromobiphenyl		ND	5	-
Decabromobiphenyl		ND	5	-
Sum of PBDEs		ND	-	1000
Monobromodiphenyl ether		ND	5	-
Dibromodiphenyl ether		ND	5	-
Tribromodiphenyl ether		ND	5	-
Tetrabromodiphenyl ether		ND	5	-
Pentabromodiphenyl ether		ND	5	-
Hexabromodiphenyl ether		ND	5	-
Heptabromodiphenyl ether		ND	5	-
Octabromodiphenyl ether		ND	5	-
Nonabromodiphenyl ether		ND	5	-
Decabromodiphenyl ether##		ND	5	-

(2) PFOS (Perfluorooctane Sulfonates) Content (Unit: $\mu\text{g}/\text{m}^2$)

Test Items	Test method (refer to)	1*	MDL
Perfluorooctane Sulfonates (PFOS)	(2)	ND	1
PFOS – Acid			
PFOS – Metal Salt			
PFOS – Amide			

PFOS Reference Information: Directive 2006/122/EC

- (i) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.
- (ii) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not separate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.

SGS SINGAPORE TECHNICAL SERVICES Co., Ltd. | 3rd Building, No. 889, Yishan Road, Shanghai, China | 200233 | TEL: (86-21) 61402553 | FAX: (86-21) 64953679 | www.cn.sgs.com
 Shanghai Branch | 中國·上海·宜山路889號3號樓 | 郵編: 200233 | HL: (86-21) 61402594 | HL: (86-21) 54500353 | e: sgs.china@sgs.com

Member of the SGS Group (SGS SA)



Test Report

No. SH9141182/CHEM

Date: Jul. 23, 2009

Page 3 of 7

other coated materials, if the amount of PFOS is equal to or higher than $1\mu\text{g}/\text{m}^2$ of the coated material.

Test Part Description:

1. Yellow FPCB (mix all)

Note:

- (1) mg/kg = ppm
- (2) ND = Not Detected
- (3) MDL = Method Detection Limit
- (4) ##=The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE is included in the sum of PBDE after 01.07.2008.
- (5) "-" = Not Regulated
- (6) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC
- (7) *The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not constitute parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.

SGS Standards Technical Services Co., Ltd.
Shanghai Branch Chemical Laboratory

3rd Building, No. 889, Yishan Road, Shanghai, China
中国·上海·宜山路889号3号楼

200233
邮编: 200233

TEL: (86-21) 61402553
HL: (86-21) 61402594

TEL: (86-21) 64953679
HL: (86-21) 54500353
www.cn.sgs.com
e: sgs.china@sgs.com

Member of the SGS Group (SGS SA)



Test Report

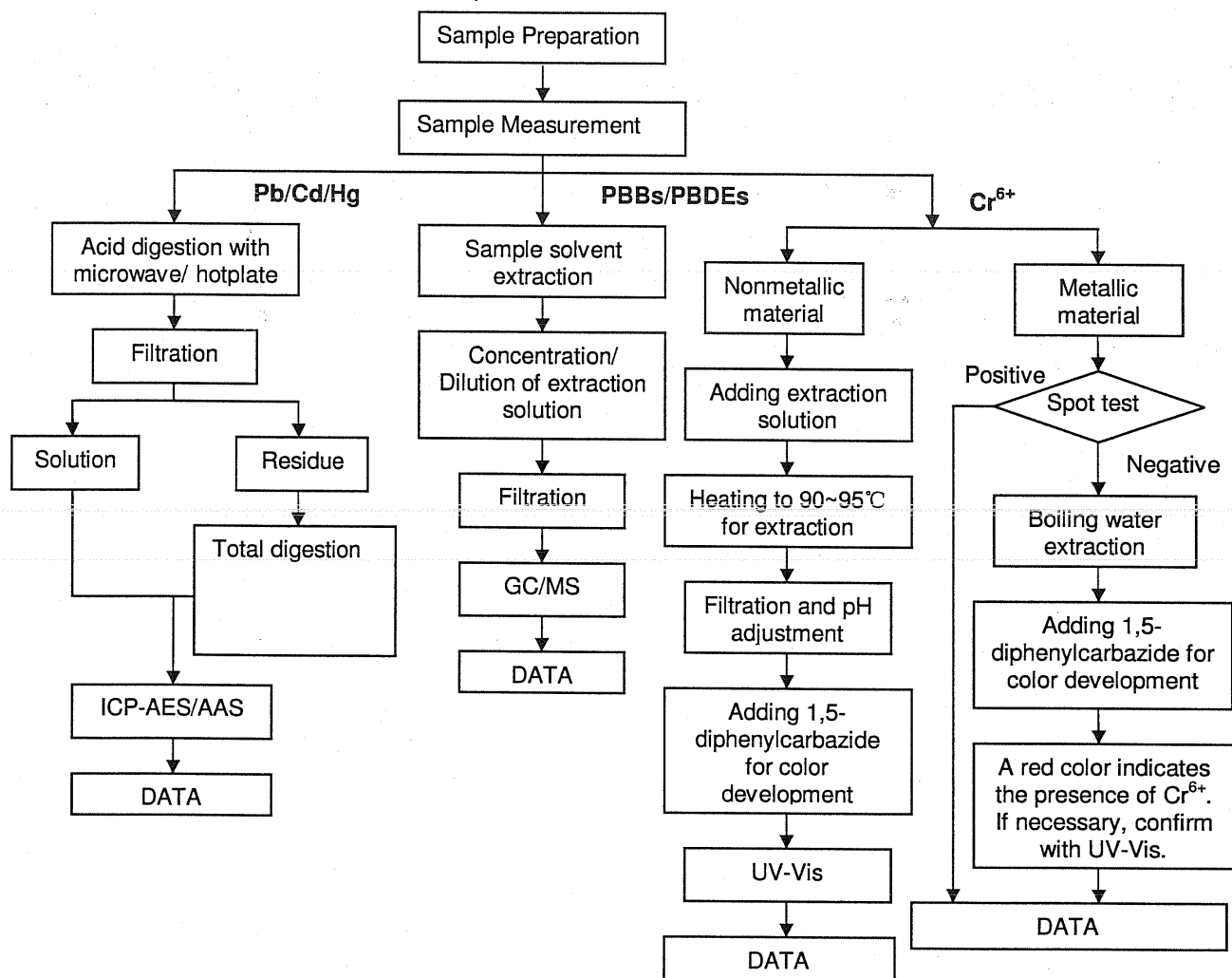
No. SH9141182/CHEM

Date: Jul. 23, 2009

Page 4 of 7

ATTACHMENTS

- 1) Name of the person who made measurement: Jeff Zhang/Chaven Lian/Frank Fang/Elim 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^{6+} and PBBs/PBDEs test method excluded)



This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects only the findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not constitute separate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.



3rd Building, No.889, Yishan Road, Shanghai, China 200233 TEL: (86-21) 61402553 FAX: (86-21) 64953679 www.cn.sgs.com
 中国·上海·宜山路889号3号楼 邮编: 200233 HL: (86-21) 61402594 HL: (86-21) 54500353 e: sgs.china@sgs.com

Member of the SGS Group (SGS SA)



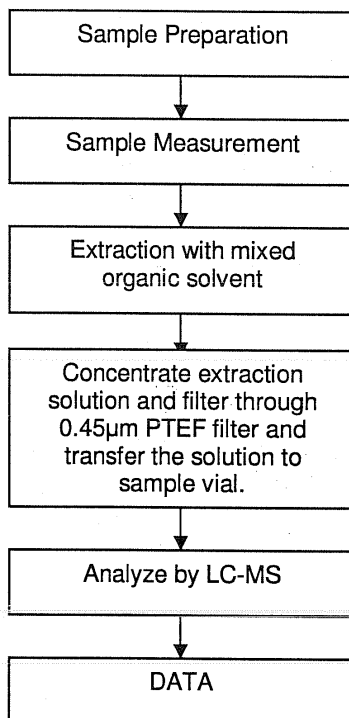
Test Report

No. SH9141182/CHEM

Date: Jul. 23, 2009

Page 5 of 7

PFOS Measurement Flowchart for sample



Tested by : Judy Li
Checked by : Jenny Liu

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification, and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the findings at the time of its intervention only and within the limits of Client's instructions. If any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.



SGS Standards Technical Services Co., Ltd. 3rd Building, No. 889, Yishan Road, Shanghai, China 200233 T&E: (86-21) 61402553 F&E: (86-21) 64953679 www.cn.sgs.com
Shanghai Branch Chemical Laboratory 中国·上海·宜山路889号3号楼 邮编: 200233 HL: (86-21) 61402594 HL: (86-21) 54500353 e: sgs.china@sgs.com

Member of the SGS Group (SGS SA)



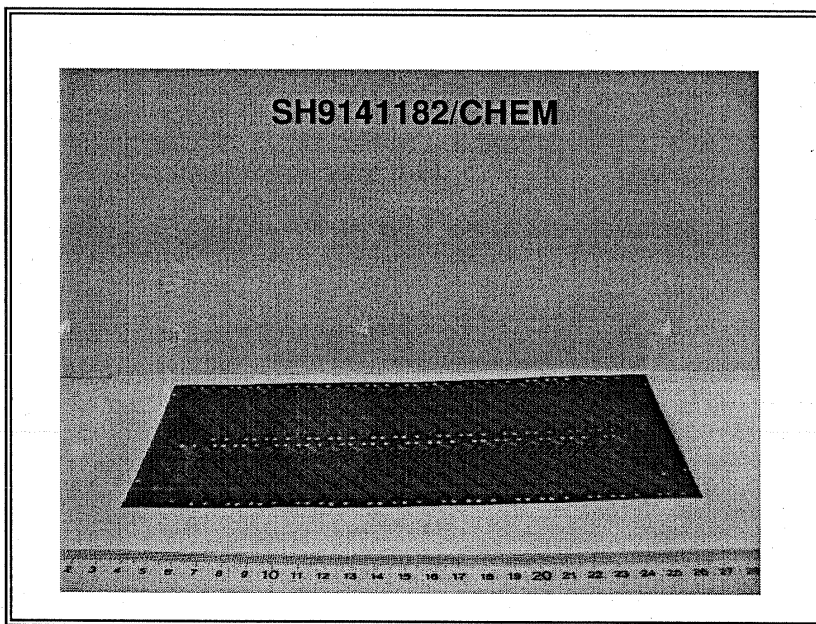
Test Report

No. SH9141182/CHEM

Date: Jul. 23, 2009

Page 6 of 7

Sample photo:



This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not constitute an offer or a contract. The Client is advised to exercise all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.



SGS - Singapore Technical Services Co., Ltd. 3rd Building, No. 889, Yishan Road, Shanghai, China 200233 TEL: (86-21) 61402553 FAX: (86-21) 64953679 www.cn.sgs.com
Shanghai Branch Chemical Laboratory 中國·上海·宜山路889號3號樓 郵編: 200233 HL: (86-21) 61402594 HL: (86-21) 54500353 e: sgs.china@sgs.com

Member of the SGS Group (SGS SA)

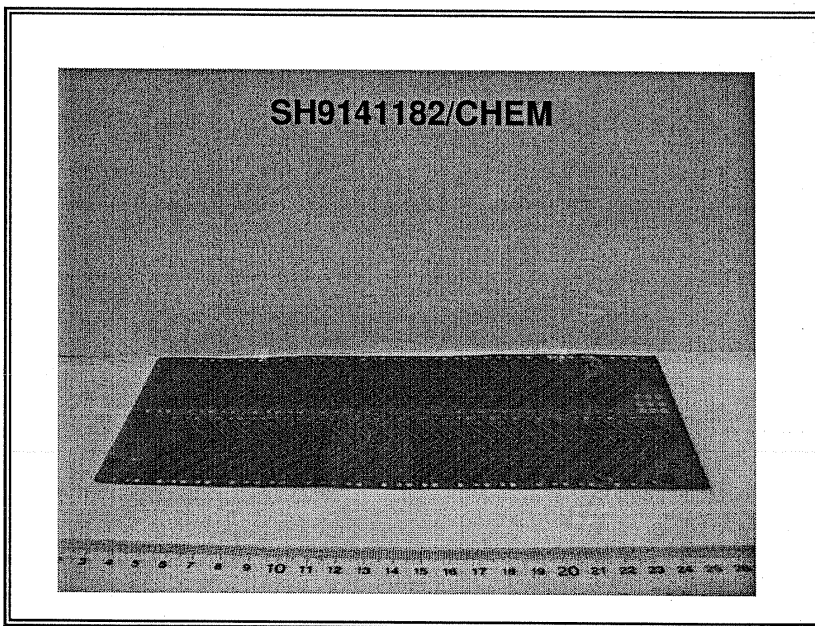


Test Report

No. SH9141182/CHEM

Date: Jul. 23, 2009


Page 7 of 7



SGS authenticate the photo on original report only

*** End of Report ***

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects only the findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not separate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.



SGS S.p.A. - Shanghai Branch
 3rd Building, No. 889, Yishan Road, Shanghai, China 200233
 TEL: (86-21) 61402553 FAX: (86-21) 64953679 www.cn.sgs.com
 中国·上海·宜山路889号3号楼 邮编: 200233 HL: (86-21) 61402594 HL: (86-21) 54500353 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)