



东莞市神久电子科技有限公司

DongGuan ShenJiu Electronic Technology Co., Ltd

Add: 东莞市黄江镇胜前岗五街五号五楼

Tel: 0769-83849285、83516915

Fax: 0769-86918226

Web: <http://www.gdsjsy.com>

E-mail: dgshenjiusy@163.com

规格承认书 APPROVAL SHEET

客户名称 Customer : _____

地址 Address: _____

电话 Telephone : _____

传真 FAX : _____

联系人 Contact: _____

品名 Product Name: 大电流电池连接器

型号 Mode No.: SJ-B10M-XP-R1/公座

料号 Material Numbers : _____

数量 Quantity : _____

承认项目 (Project): 成品\Product 样品\Sample 原材料\Material 其它\other

客户承认签核 (CUSTOMER APPROVAL):

品管 Q C	工程 Engineer	采购 Purchase	客户签章 Customer signature
pass <input type="checkbox"/> not <input type="checkbox"/>	pass <input type="checkbox"/> not <input type="checkbox"/>	pass <input type="checkbox"/> not <input type="checkbox"/>	
结果判定(Judge outcom): _____			
日期 (DATE) : _____			

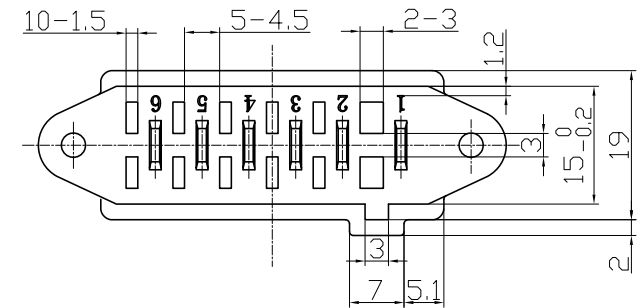
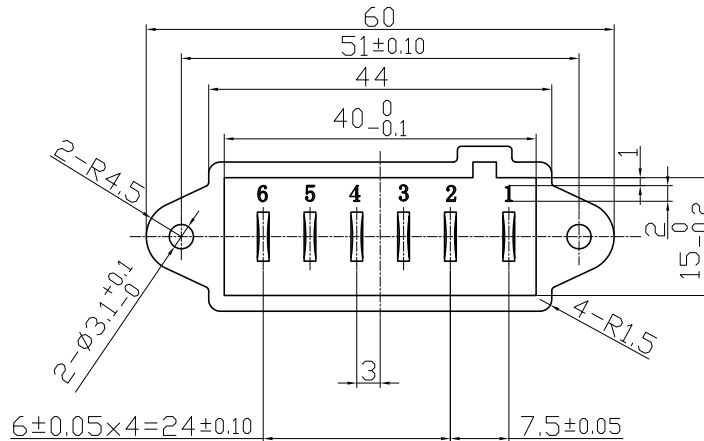
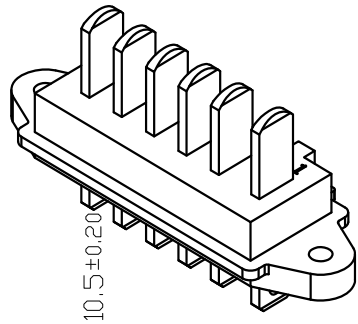
内部签核(Shenjiu APPROVAL):

制作\Prepared	检查\check	确定\APPROVAL	签章\APPROVAL SIGNATURE
刘程江	陆彩娟		

Rohs

受控文件

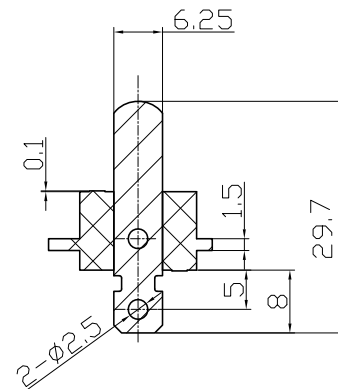
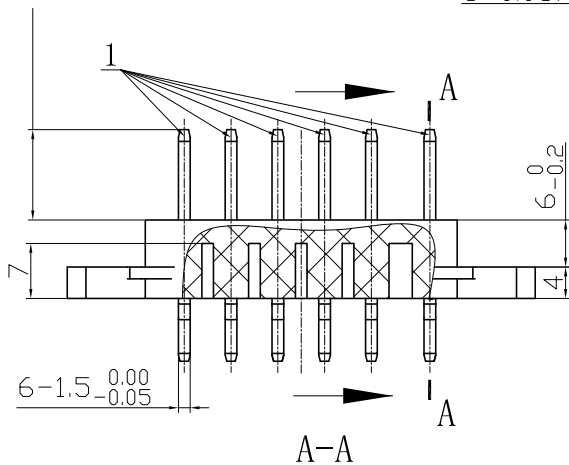
REV.	DESCRIPTION	DRAW.	DATE.



料号：SJ-K3060



Material:
 Insulator : NYLON (UL94V-0)
 Contact : Phosphor Bronze
 Contact Plated : Nickel
 Specification:
 Current Rating : 15A
 Voltage Rating : 24V
 Contact Resistance : 100m Ω
 Insulation Resistance : 500M Ω
 Dielectric Voltage : 1500V
 Operating Temperature : -25°~85°



东莞市神久电子科技有限公司

www.gdsjconn.com 刘先生/13922534862

REV:	01
SIZE:	A4
SCALE: 1:1	UNIT: mm
SHEET: 1/1	

料号：SJ-A3060	
X.	±0.20
X.x	±0.15
X.xx	±0.10
ANGULAR	±2°

TITLE:	大电流电池连接器
PART NO.:	SJ-B10M-XP-R1

DESIGN	DATE
DRAWING	DATE
CHECK	DATE
SCALE 1:1	PAGE 1 OF 1

規 格 書

SPECIFICATION



- SERIES** 系列: CONNECTOR
- MODEL NO.** 型號: SJ-B10M-5P-R1/公座
- 1. RATING** 額定值: 15 A 24V DC
- 2. CIRCUIT** 回路:
- 3. TIMING** 切換類型:
- 4. STANDARD TEST TEMPERATURE SHALL BE 5°C TO 35°C AND HUMIDITY SHALL BE 45% TO 85% .**
溫度 5~35°C, 濕度 45~85% 標準狀態下測試。
- 5. OPERATING TEMPERATURE RANGE IS -20°C TO 70°C. IT IS USUALLY APPLIED TO ELECTRONIC AND ELECTRICAL APPLIANCE PRODUCTS.**
溫度 -20°C~70°C 環境內使用。一般適用於電子、電氣方面產品使用。
- 6. STORAGE TEMPERATURE RANGE : -40°C~85°C.**
保存溫度範圍-40°C~85°C.

ITEM 項目		TEST CONDITION 測試條件	PERFORMANCE 性能
7. ELECTRONICAL PERFORMANCE 電氣性能			
7.1	CONTACT RESISTANCE 接觸電阻	Being tested at 1 kHz small current and voltage (100mA,20mV) by contact resistance meter. 在 1kHz 小電流電壓 (100mA,20mV) 下測量。	30mΩ max. 30毫歐 以下。
7.2	INSULATION RESISTANCE 絕緣電阻	DC 500 V shall be applied for test between terminals and between terminals and frame for one minute. 在端子之間和端子與殼之間加 DC 500 V 條件下, 持續1分鐘測量。	100 M Ω min. 100兆歐 以上。
7.3	WITHSTAND VOLTAGE 耐電壓	AC 500 V and induction current 1mA shall be applied for test between terminals and between terminals and frame for one minute. 在端子之間和端子與殼之間加 AC 500 V (50Hz或60Hz) 感應電流1mA條件下, 持續1分鐘測量。	There shall be no breakdown. 無擊穿現象出現。
8. MECHANICAL PERFORMANCE 機械性能			
8.1	INSERTION AND EXTRACTION FORCE 插入及拔出 力度	Insert plug into the jack and extract for test. then measure the insertion and extraction force. 用插頭插入和拔出插座, 測量插入和拔出的作用力。	Insertion force: 插入力度: 0.3~3.0kgf Extraction force: 拔出力度: 0.3~3.0kgf

ITEM 項目		TEST CONDITION 測試條件	PERFORMAENCE 性能
8.2	TERMINAL STRENGTH 端子強度	A static force of 500 g being applied in one direction on the tip of the terminal for 1 minute. 一個 500 克之靜負荷施加於端子頂部的一個方向持續1分鐘。	There shall be no sign of mechanical and electrical damage. 無任何迹象顯示機械及電器性能之損壞。
9. DURABILITY 耐久性			
9.1	SOLDERING TEST 可焊性試驗	The tip of the terminals shall be dipped 2 mm in the solder bath within temperature of 250±5°C for 3 seconds. 端子頂部被浸入焊錫池 2mm 深, 溫度250±5°C, 時間3秒。	Over 95% of the immersed surface was covered by tin. 浸入的部份95%以上表面將被錫覆蓋。
		The condition mentioned is temperature for lead-free soldering . 無鉛錫測試 Alloy: Sn 96.5% Cu 3% Ag 0.5% 成份: 錫 96.5% 銅 3% 銀 0.5%	
9.2	SOLDERING RESISTANT TEST 耐焊性試驗	Manual soldering temperature 300±5°C, soldering time 3±0.5 seconds, however excessive pressure shall not be applied to the terminal. 手焊接的時候溫度需控制在300±5°C, 時間為3±0.5秒, 但不能在端子上施加異常壓力。	Without deformation of case or excessive looseness of teminals, meet mechanical and electrical properties 本體無變形, 能滿足於機械、電器性能.
		The condition mentioned is temperature for lead-free soldering . 無鉛錫測試。 Alloy: Sn 96.5% Cu 3% Ag 0.5% 成份: 錫 96.5% 銅 3% 銀 0.5%	
9.3	REFLOW SOLDERING HEAT TEST 回流焊接熱試驗		Without deformation of case or excessive looseness of teminals meet mechanical and electrical properties 本體無變形, 能滿足於機械、電器性能.
		<p>*Temperature means The temperature of he PC board * PC board thickness for 1.0 mm *溫度指PC板表面的溫度 *PC板厚度为1.0毫米</p> <p>The condition mentioned is temperature for lead-free soldering . 無鉛錫測試。 Alloy: Sn 96.5% Cu 3% Ag 0.5% 成份: 錫 96.5% 銅 3% 銀 0.5% Allowable soldering time: 1 time 回流焊次數: 1次</p>	



ITEM 項目	TEST CONDITION 測試條件	PERFORMAENCE 性能
9.4	LIFE TEST 壽命試驗 5000 cycles of operation at a rate of 15-18 cycles per minute with unloading 無負載條件下，每分鐘 15-18 次的速度操作 5000 次。	(1) Contact resistance 100mΩ max. 接觸電阻100毫歐 以下 (2) Insertion force: 插入力度：0.2~3.0kgf Extraction force: 拔出力度：0.2~3.0kgf (3) ITEM 項目—7.2 (4) ITEM 項目—7.3 (5) ITEM 項目—8.2
9.5	HEAT RESISTANT TEST 耐熱試驗 80±2℃ for 96 hours, test after keeping in normal condition for 30 minutes. 在 80±2℃ 環境中放96小時，再放在正常環境中30分鐘後進行測試。	(1) Contact resistance 100 mΩ max. 接觸電阻100毫歐以下 (2) Insulation resistance 50 MΩ min. 絕緣電阻50兆歐以上
9.6	MOISTURE RESISTANT TEST 耐濕試驗 40±2℃ 90-95% RH for 96 hours, test after keeping in normal condition for 30 minutes. 在40±2℃ 90-95% RH 環境中放96小時，再放在正常環境中，30分鐘後進行測試。	(3) There shall be no sign of mechanical and electrical damage. 無任何迹象顯示機械及電器性能之損壞。
9.7	COLD RESISTANT TEST 耐冷試驗 At -40±3℃ for 96 hours, test after keeping in normal condition for 30minutes. 在 -40±3℃ 環境中放96小時，再置於正常環境中，30分鐘後進行測試。	
9.8	TEMPERATURE CYCLING TEST 溫度交變試驗 According to following figure, after 5 cycles, test after keeping in normal condition for 30 minutes. 如圖示之環境中，循環5次後，再置於正常環境中，30分鐘後進行測試。	
		



浙江中环铜业有限公司
浙江省绍兴柯桥区安昌街道白洋村

以下测试之样品是由申请者所提供及确认: C2680 (H65) 高精度黄铜带

SGS工作编号: SP20-028813 - SH

样品接收日期: 2020年09月07日

测试周期: 2020年09月07日 - 2020年09月09日

测试要求: 根据客户要求测试

测试方法: 请参见下一页

测试结果: 请参见下一页

结论: 基于所送样品进行的测试, 镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。



通标标准技术服务(上海)有限公司
授权签名

Lucy Yu 俞君屏
批准签署人



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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 exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. 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.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

测试结果:

测试样品描述:

SN1 SHA20-177735.001 黄色金属

备注:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定



测试方法: 参考IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015和IEC 62321-8:2017, 采用ICP-OES, AAS, UV-Vis和GC-MS进行分析。

测试项目	限值	单位	MDL	001
镉 (Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	8
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	µg/cm ²	0.10	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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 exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com



测试项目	限值	单位	MDL	001
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

IEC 62321系列等同于 EN 62321 系列

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(2) ▼ = a. 当六价铬的浓度高于0.13 μg/cm²时, 样品为阳性, 即含有六价铬;

b. 当六价铬的浓度为ND(低于0.10 μg/cm²)时, 样品为阴性, 即未检测到六价铬;

c. 当六价铬的浓度介于0.10 μg/cm²与0.13 μg/cm²之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期, 样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

除非另有说明, 此报告结果仅对测试的样品负责。本报告未经本公司书面许可, 不可部分复制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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 exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. 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.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC (Shanghai) Co., Ltd.
Testing Center - China

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

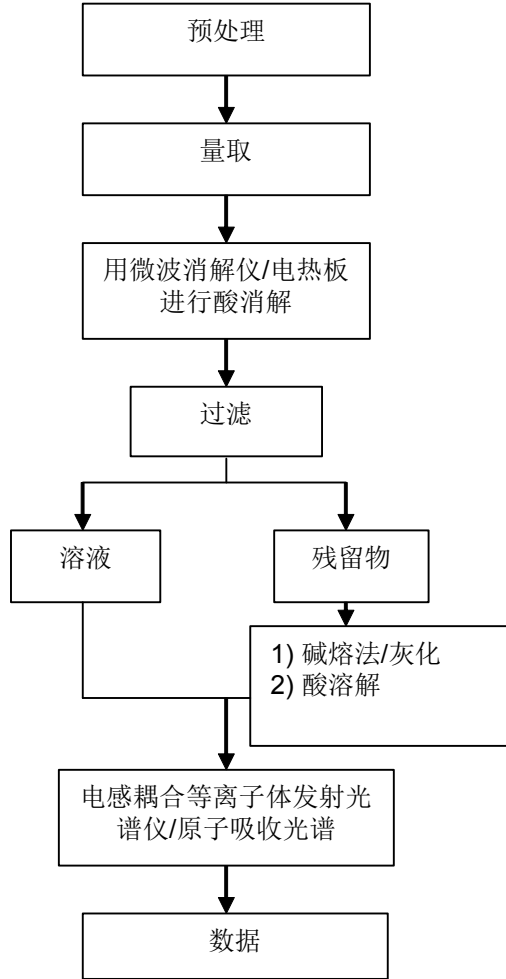
t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgs.com.cn
t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com



附件

元素(IEC62321) 测试流程图

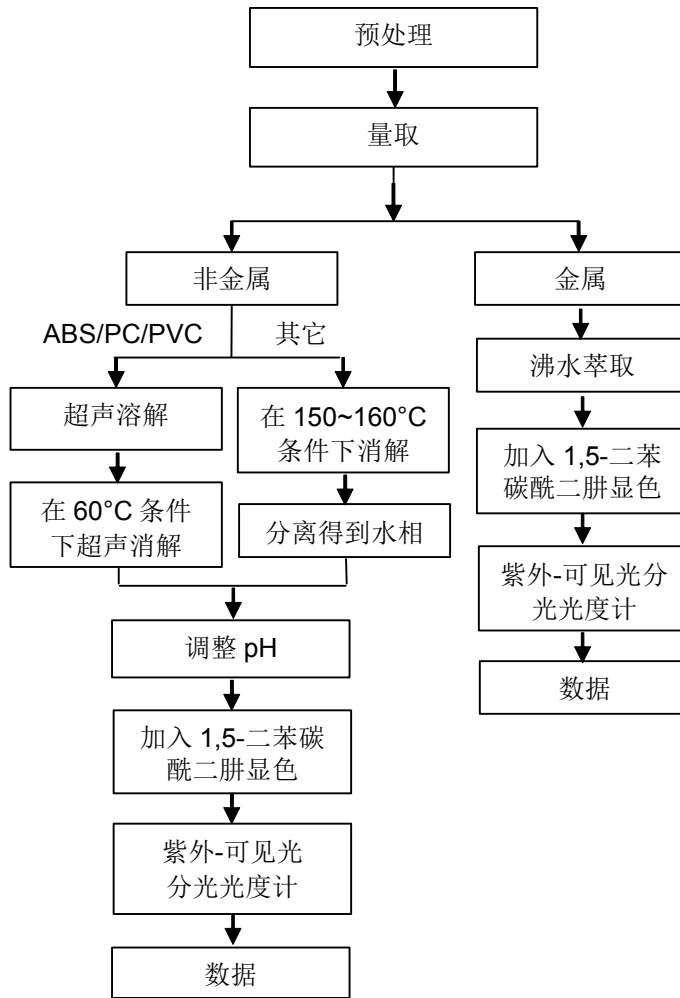
1)样品按照下述流程被完全消解





附件

六价铬测试流程图



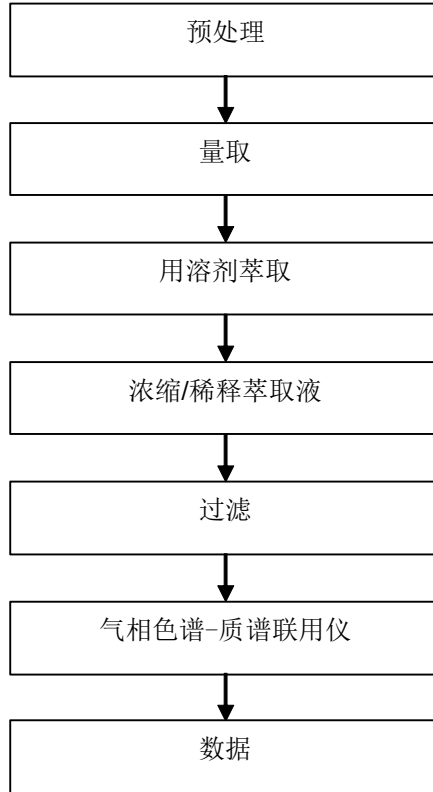
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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 exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



附件

PBBs/PBDEs 测试流程图



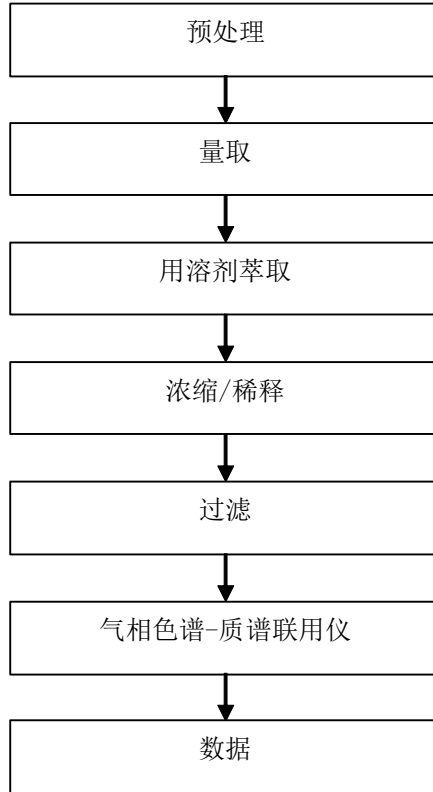
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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 exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



附件

Phthalates 测试流程图

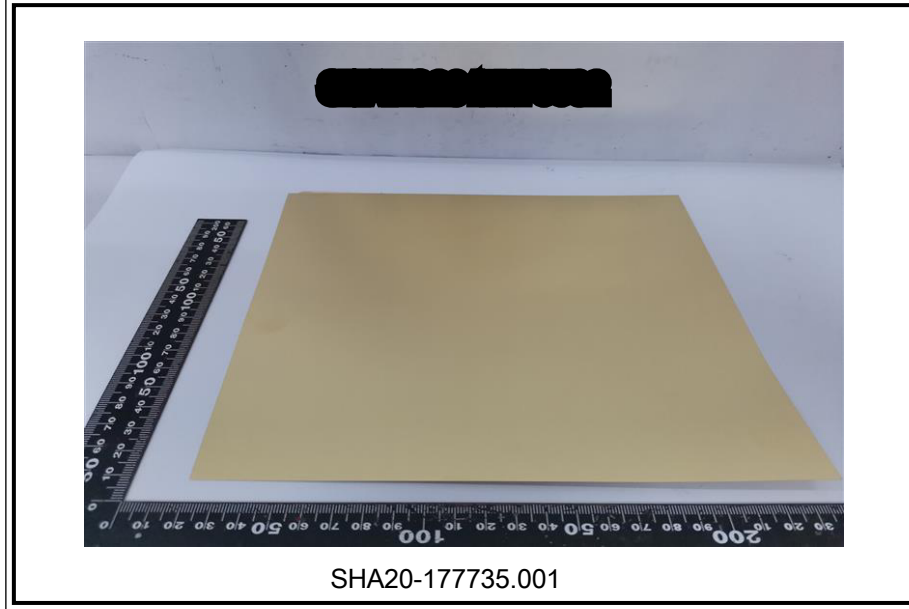


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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 exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. 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.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



样品照片:



此照片仅限于随SGS正本报告使用

*** 报告完 ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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 exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. 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.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com