

胜牌绝缘材料公司

SHENGPAI INSULATION MATERIALS CO.,LTD

规格承认书

SPECIFICATION FOR APPROVAL

品名/规格: 带胶双壁热缩管
STYLES&SIZE

客户名称:
CUSTOMER

设计卡号:
ED NO.

承认书号: SP-2020022101
APPROVAL NO

制定日期: 2020-02-21
SET A DATE

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EDITION

签章栏 APPROVAL COLUMN		
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刘水根	高明付	何世富

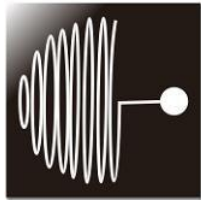
客户确认栏 CUSTOMER APPROVAL COLUMN	
确认	核准

广东胜牌绝缘材料有限公司 GUANG DONG SHENGPAI INSULATION MERTERIALS CO.,LTD

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胜牌绝缘材料公司

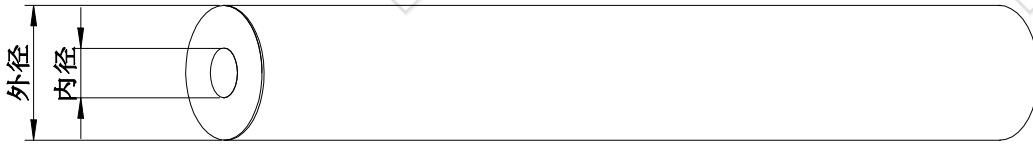
SHENGPAI INSULATION MATERIALS CO.,LTD

Property Data Sheet	Product Describe 产品描述		带胶双壁热缩管		
物性表	Trademark 牌号		胜牌SP-PT		
ITEM	TEST METHOD	CONDITIONS	UNIT	NOMINAL VALUE	
项目	测试方法	条件	单位	测定值	
Mechanical Properties 机械性能					
Tensile Strength 抗张强度	UL224	23°C	MPa	≥10.4	
Elongation at break 断裂伸长率	UL224	23°C	%	≥200	
Tensile Strength(aged) 老化后抗张强度	UL224	158°C×168h	MPa	≥7.3	
Elongation at break(aged) 老化后断裂伸长率	UL224	158°C×168h	%	≥100	
Chemical Properties 化学性能					
Copper stability 铜安定性	UL224	158°C×168h	-	PASS	
Corrosion resistance 抗腐蚀性					
Working Temperature 工作温度					
Temperature class 耐温等级	UL224	-30°C (24H) 125°C (240H)	°C	PASS	
Electrical Properties 电气性能					
Dielectric Test 耐压测试	UL224	600V	V/min	2500V不击穿	
Breakdown strength 击穿强度	UL224	23°C	KV/mm	≥15	
Volume Resistivity 体积电阻率	UL224	23°C	Ω·cm	≥1×10 ¹⁴	

1. 以上数据是材料在 23°C±2°C, 50%±2%湿度环境下测得; 数据为实验典型值, 并非材料的最低值。

2. 有关公司材料的安全使用, 请参考所用材料、品级所对应的安全数据表[MSDS]。

带胶双壁热缩管规格表

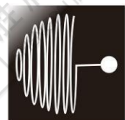


3: 1 双壁热收缩套管的产品尺寸规格表

规格 (mm)	收缩前尺寸 (mm)		收缩后尺寸 (mm)	
	内径	壁厚	内径	壁厚
φ 1.6	2.2±0.2	0.38±0.03	≅0.6	0.7
φ 2.4	3.0±0.2	0.38±0.03	≅0.8	0.75
φ 3.2	4.0±0.2	0.40±0.03	≅1.1	0.95
φ 4.8	5.4±0.2	0.42±0.03	≅1.6	1.05
φ 6.4	7.4±0.2	0.48±0.03	≅2.0	1.25
φ 7.9	8.4±0.2	0.50±0.03	≅2.6	1.3
φ 9.5	10.8±0.2	0.56±0.04	≅3.15	1.5
φ 12.7	13.7±0.2	0.65±0.04	≅4.2	1.8
φ 15.4	17.2±0.3	0.68±0.05	≅5.1	1.85
φ 19.1	21.0±0.3	0.7±0.05	≅6.3	2.1
φ 25.4	26.3±0.3	0.8±0.10	≅8.3	2.25
φ 30	32.0±0.3	0.85±0.10	≅10	2.35
φ 35	36±0.3	0.9±0.10	≅11.5	2.45
φ 38	39±0.5	0.9±0.10	≅12.5	2.5
φ 40	41.5±0.5	0.95±0.10	≅13	2.6
φ 50	51.5±0.5	1.0±0.10	≅16.5	2.9
φ 1.6	2.2±0.2	0.38±0.03	≅0.6	0.7
φ 2.4	3.0±0.2	0.38±0.03	≅0.8	0.75
φ 3.2	4.0±0.2	0.40±0.03	≅1.1	0.95
φ 4.8	5.4±0.2	0.42±0.03	≅1.6	1.05
φ 6.4	7.4±0.2	0.48±0.03	≅2.0	1.25

4: 1 双壁热收缩套管的产品尺寸规格表

规格 公制 (mm)	收缩前最小内径 (mm)	收缩后尺寸 (mm)		
		最大内径mm	总壁厚	胶层厚度
φ 4.0	φ 4.0	φ 1.0	1.0±0.15	0.4±0.15
φ 6.0	φ 6.0	φ 1.5	1.1±0.15	0.4±0.15
φ 8.0	φ 8.0	φ 2.0	1.2±0.15	0.5±0.15
φ 12.0	φ 12.0	φ 3.0	1.4±0.15	0.5±0.15
φ 16.0	φ 16.0	φ 4.0	1.7±0.15	0.6±0.15
φ 20.0	φ 20.0	φ 5.0	2.0±0.15	0.6±0.15
φ 24.0	φ 24.0	φ 6.0	2.1±0.15	0.6±0.15
φ 32.0	φ 32.0	φ 8.0	2.4±0.15	0.7±0.15
φ 40.0	φ 40	φ 10	2.4±0.15	0.7±0.15
φ 52.0	φ 52.0	φ 13	2.4±0.15	0.7±0.15



带胶双壁热缩管材质证明

原料名称			使用目的	CAS NO	使用配比百分率%
中文	英文	分子式			
乙烯-醋酸乙烯共聚物	Ethylene-vinyl acetate copolymer	$(CH_2-CH_2)_m-(CH_2-CH-COOCH_3)_n$	基料	24937-78-8	30
弹性体	POE	混合物	增韧剂	27177-07-7	6
色母	pigment	色粉+填充剂	着色剂	83524-75-8	4
氢氧化镁	Magnesium hydroxide	$Mg(OH)_2$	阻燃剂	1309-42-8	20
热熔胶	40%	/	粘合	/	40

特此证明 Hereby prove!

声明：本公司原料严格执行欧盟环保标准要求。

Disclaimer: The company's raw materials strictly comply with EU environmental standards.



胜牌绝缘材料公司

SHENGPAI INSULATION MATERIALS CO.,LTD

物质安全资料表

MATERIAL SAFETY DATA SHEET

一、物品与厂商资料 Article and manufacturer information

物品名称：带胶双壁热缩套管

Article: Double wall heat shrinkable tube with adhesive

胜牌品号： SP-PT 热缩管

客户料号：

SP Part No:

Customer item number:

制造商地址： 中国 广东 东莞市虎门镇路东社区新安大道新园南一路 1 号

Manufacturer Address: No.1, Nanyi Road, Xinyuan, Xin'an Avenue, Ludong Community, Humen Town, Dongguan, Guangdong, China

Tel: 0769-39005541 Fax: 0769- 85196553

二、成份辨识数据 Component identification data

成份：EVA(乙烯-醋酸乙烯共聚物)

Ingredients: EVA (Ethylene-vinyl acetate copolymer)

同义同称：无

Synonymous with the same name: no

化工数据库登记号码(CAS No)：24937-78-8

Chemical database registration number (CAS No): 24937-78-8

危害物质成分(成分百分比)：无

Hazardous substance composition (percentage of ingredients): nothing

三、危害辨识数据 Hazard identification data

最重要危害效应 Most important hazard effect	健康危害效应：没有特殊的危害性 Health hazard effects: No special harm
	环境影响：环保产品，低铅低镉 (Pb<50PPM Cd<5PPM Hg<5PPM Cr(+6)<5PPM, PBB<5PPM, PBDE<5PPM) Environmental impact: Environmentally friendly products, low lead and low cadmium
	(Pb<50PPM Cd<5PPM Hg<5PPM, Cr(+6)<5PPM, PBB<5PPM, PBDE<5PPM)
	物理性及化学性危害：燃烧时产生有毒气体 Physical and chemical hazards: toxic gases are produced during combustion
	特殊危害：外被绝缘脆化，绝缘性能下降、漏电 Special hazards :Insulation embrittlement reduces insulation performance and leakage
主要症状：误食后引起呕吐、腹胀。 The main symptoms: vomiting and bloating after eating.	

四、急救措施 First-aid

不同暴露途径之急求方法：

First aid methods for different exposure routes:

- 食入、吸入：吸入中毒，送医院治疗。
- Ingestion, inhalation: If poisoned, sent to hospital for treatment
- 皮肤接触：用水清洗。
- Skin contact: Wash with water.
- 眼睛接触：送医院治疗，不可揉眼睛。
- Eye contact: Send to hospital for treatment, do not blink.

最重要症状及危害效应：经由火源造成之化学反应伤害，请火速送医救治

The most important symptoms and harmful effects: the chemical reaction damage caused by the fire source, please send the doctor to the hospital quickly.

对急救人员之防护：火灾时关掉电源、避免接触同类感染源。

Protection for first-aiders: Turn off the power during a fire and avoid contact with similar sources of infection.

对医生的提示：尽可能清楚了解感染物，以节省救治时效

Tips for doctors: Learn as much as possible about the source of infection to save time

五、灭火措施 Fire fighting measures

适用灭火剂：小型火灾用干粉饼(ABC 或 CB)二氧化碳，空气泡沫，(Air Foam)或水雾，大型火灾可使用空气泡沫。

Suitable extinguishing agents: (ABC or CB) carbon dioxide, air foam, (Air Foam) or water mist for small fire, large fire can use air foam.

灭火时可能遭遇之特殊危害：火灾会释出有毒含碳氧化物、氯化物

Special hazards that may be encountered during firefighting: fire releases toxic carbon oxides, chlorides

特殊灭火程序：(1)切断起火源，(2)疏散易燃物至安全处所，(3)尽量使用自动或固定灭火设施，人员避免进入灾区，(4)以消防水冷却着火之容器保护附近设施。

Special fire extinguishing procedures: (1) Cut off the source of ignition. (2) Evacuate flammable materials to safety. (3) Try to use automatic or fixed fire-fighting facilities, and personnel should avoid entering the disaster area. (4) Use fire water to cool the bonfire container to protect nearby facilities.

消防人员之特殊防护设备：应穿戴防护具及呼吸器

Special protective equipment for firefighters: Wear protective gear and respirator

六、泄漏处理方法 Leakage treatment method

线材为固体，不存在泄漏隐患。

The wire and cable is solid and there are no hidden dangers.

环境注意事项：严禁烟火、避免长时间处于高温、低温环境。

Environmental precautions: Prohibit fireworks and avoid prolonged exposure to high temperatures and low temperatures.

清理方法：不能用手直接接触线材清理。

Cleaning method: Do not touch the wire directly with your hands.

七、安全处置与储存方法 Safe disposal and storage method

<p>处置： 作业场所严禁烟火并尽可能备存挑水器具</p> <p>Disposal： Fireworks are prohibited in the workplace and equipment for water picking is kept</p>
<p>储存：(1) 储存于阴凉，干燥及通风良好，且阳光无法直射处 (2) 安全规则应公告于使用经常出入场所明显处。</p> <p>Storage: (1) Store in a cool, dry and well ventilated area, and the sun can not be directly exposed. (2) Safety rules should be announced in the obvious places where you enter the venue frequently.</p>

八、暴露预防措施 Exposure prevention measures

<p>工程控制：尽量避免与金属类接触。</p> <p>Engineering Control: Try to avoid contact with base metals.</p>
<ul style="list-style-type: none"> ● 生物指标：无资料 ● Biological indicators: no data
<p>个人防护设备：</p> <p>Personal protective equipment:</p> <p>3. 呼吸防护：逃生用供气式或自携呼吸防护具，救灾或紧急状况用正压式全面型供气式呼吸具</p> <p>4. Respiratory protection: Use air supply or self-contained breathing apparatus when escaping. Use positive pressure breathing apparatus for disaster relief or emergency situations</p> <p>5. 手部防护：使用绝缘防护手套</p> <p>6. Hand protection: use insulated protective gloves</p> <p>7. 眼睛防护：化学安全防护目镜</p> <p>8. Eye protection: chemical safety protective eyepieces</p> <p>9. 皮肤及身体防护：防护衣，防护长筒绝缘靴。</p> <p>10. Skin and body protection: protective clothing, protective long tube insulated boots.</p>
<p>卫生措施：进入工作区必须配戴好个人防护器具。</p> <p>Hygiene measures: Personal protective equipment must be worn when entering the work area.</p>

九、物理及化学性质 Physical and chemical properties

<p>物质状态：固体物</p> <p>Material state: solid matter</p>	<p>形状：圆形、扁平 Shape: round, flat,</p>
<p>颜色：各种颜色</p> <p>Color: various colors</p>	<p>气味：无明显刺激气味</p> <p>Odor: no obvious irritating smell</p>
<p>PH 值：6.0-7.0</p> <p>PH value: 6.0-7.0</p>	<p>沸点范围：---</p> <p>Boiling point range: ---</p>
<p>自燃温度：500℃</p> <p>Auto-ignition temperature: 500℃</p>	<p>爆炸界限：无资料</p> <p>Explosion boundary: no data</p>
<p>蒸气压：不会产生气压</p> <p>Vapor pressure: no air pressure</p>	<p>蒸气密度：不会产生蒸汽</p> <p>Vapor density: no steam is produced</p>
<p>密度：1.2~1.35g/cm³</p> <p>Density: 1.2~1.35g/cm³</p>	<p>溶解度：不溶于水</p> <p>Solubility: Insoluble in water</p>

十、安定性及反应性 Stability and reactivity

安定性：属安定性 Stability: stability
特殊状况下可能的危害反应：无资料 Possible hazard response under special conditions: no data
应避免之物质：强酸、强碱性物质 Substances to be avoided: strong acid, strong alkaline substances

十一、毒性资料 Toxicity data

毒性：硅胶表面属于几乎无毒性，皮肤接触不会引起敏感反应及其他副作用。 Toxicity: The surface of silicone rubber is almost non-toxic, and skin contact does not cause sensitive reactions and other side effects.
特殊效应：如不慎将线材部分材料误食，将此引起腹痛，作呕及其他症状。 Special effects: If you accidentally eat some of the material of the wire, it will cause abdominal pain, nausea and other symptoms.

十二、生态资料 Ecological information

可能的环境影响：废弃的线材污染环境。 Possible environmental impact: Abandoned wire contaminates the environment.

十三、废弃处置方法 Disposal method

废弃处置方法： Disposal method: (1) 用土填埋 (2) 回收线材导体金属再利用。 (1) Landfill with soil (2) Recycling of wire conductor metal for reuse.

十四、运送资料 Shipping information

特殊运送方法及注意事项：1. 应注意避免撞击。 Special shipping methods and precautions: Care should be taken to avoid Hit.

十五、法规资料 Regulatory information

适用法规：ROHS 指令 Applicable regulations: ROHS directive
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十六、其他数据 Other data

参考文献 References	《国际化工文献数据库》、《ROHS 法规》 《International Chemical Literature Database》 《ROHS regulations》
编制单位 Prepared by	广东胜牌绝缘材料有限公司 GUANG DONG SHENGPAL INSULATION MATERIALS CO., LTD 地址：中国 广东 东莞市虎门镇路东社区新安大道新园南一路 1 号 Manufacturer Address: No.1, Nanyi Road, Xinyuan, Xin'an Avenue, Ludong Community, Humen Town, Dongguan, Guangdong, China TEL: 0769-39005541

广东胜牌绝缘材料有限公司

出厂检测报告 FACTORY INSPECTION TEST REPORT

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 地址: 东莞市虎门镇路东社区新安大道新园南一路一号
 http: www.triumphcable.com

客户:											
品名:		环保双壁管	规格:	Φ 2.4	颜色:	黑色					
出货数量:		400M	抽验数量	400M	生产批号:	/					
序号	检验项目	检验要求	重要度	AQL	判定数		实测值		判定		
					AC	RE	Max	Min	OK	NG	
1	外观	无杂质无油沙, 无色差	C	2.5	7	8	/	/	√	<input type="checkbox"/>	
2	收缩前最小内径	≥2.4	B	1.5	5	6	3	2.8	√	<input type="checkbox"/>	
3	收缩后最大内径	≤0.80	B	1.5	5	6	0.8	0.7	√	<input type="checkbox"/>	
4	收缩后总壁厚	0.8±0.3 mm	C	1.5	5	6	0.82	0.78	√	<input type="checkbox"/>	
5	耐压	≥2.5 KV	A	1.0	3	4	3.1	2.8	√	<input type="checkbox"/>	
6	长度公差	200MM±10MM	A	1.5	5	6	204	199	√	<input type="checkbox"/>	
7	拉伸强度	≥10.4MPa	A	1.5	5	6	12.3	11.5	√	<input type="checkbox"/>	
8	断裂伸长率	≥200	A	1.5	5	6	315	286	√	<input type="checkbox"/>	
结论		<input checked="" type="checkbox"/> 合格 <input type="checkbox"/> 不合格									
检验员: 刘水根		日期: 2019/11/29			审核: 高明付			日期: 2019/11/29			

测试报告

No. CANEC1908074201

日期: 2019年05月10日 第1页,共6页

广东胜牌绝缘材料有限公司

东莞市虎门镇路东社区新安大道新园南一路1号

以下测试之样品是由申请者所提供及确认: 双壁热缩管:透明、橙色、黑色、白色

SGS工作编号:	CP19-022712 - SZ
型号:	双壁热缩管:透明、橙色、黑色、白色
客户参考信息:	双壁热缩管,防滑花纹管,黄腊管
样品接收日期:	2019年05月07日
测试周期:	2019年05月07日 - 2019年05月10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

通标标准技术服务有限公司广州分公司
授权签名

Dongyu Xie 谢冬育
批准签署人



SGS-CSTC Inspection & Testing Services Co., Ltd.
Guangzhou Branch Testing Center Chemical Laboratory.

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测试报告

No. CANEC1908074201

日期: 2019年05月10日 第2页,共6页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	CAN19-080742.001	无色透明塑胶管+橙色塑胶管+黑色塑胶管+白色塑胶管

备注:

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

元素分析, 阻燃剂&邻苯二甲酸酯

测试方法: 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015和IEC 62321-8:2017, 采用ICP-OES,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)	1,000	mg/kg	2	ND
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	1,000	mg/kg	8	ND
多溴联苯之和(PBBs)	1,000	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)	1,000	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
五溴二苯醚	-	mg/kg	5	ND

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测试报告

No. CANEC1908074201

日期: 2019年05月10日 第3页,共6页

测试项目	限值	单位	MDL	001
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)	1,000	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	1,000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1,000	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	1,000	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
http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

备注1: 结果基于混合样品的总重计算。

备注2: 样品的测试是基于申请人要求混合测试, 报告中的混合测试结果不代表其中个别单一材质的含量, 该测试数据仅供参考。

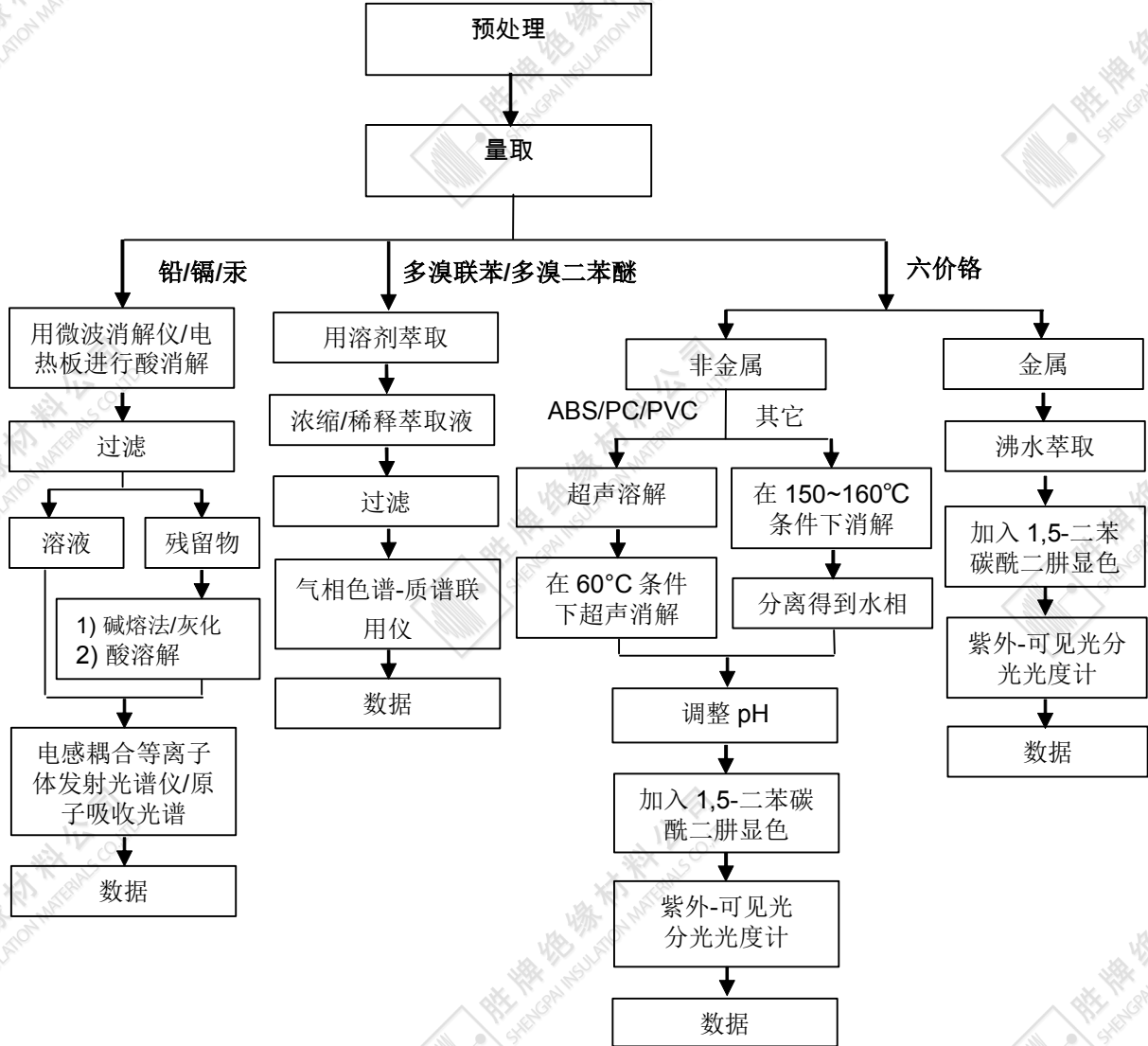
检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



附件

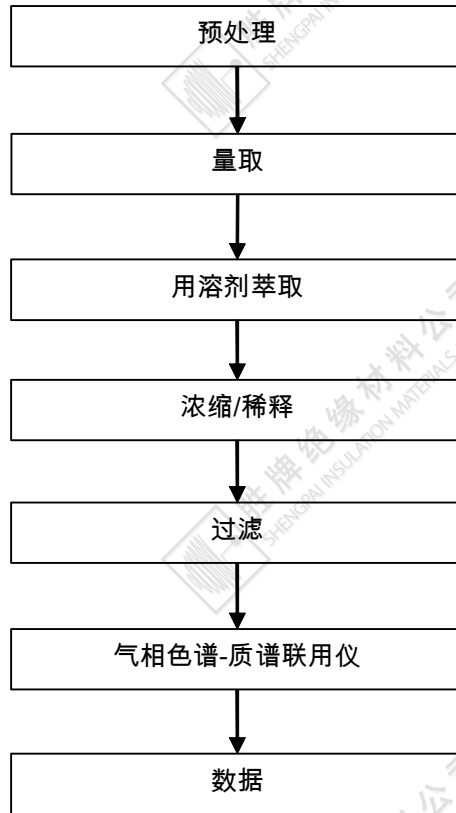
Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 测试流程图

1) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)。



附件

Phthalates 测试流程图



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测试报告

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日期: 2019年05月10日 第6页,共6页

样品照片:



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*** 报告完 ***

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