

## 检测报告

编号: SHAEC23015826702

日期: 2023年10月09日

第1页, 共9页

客户名称: 广州恒格材料科技有限公司  
客户地址: 广东省广州市黄埔区科学城凝彩路26号邮编510663

样品名称: PC管  
型号: Φ20  
客户参考信息: Φ4.5,Φ5,Φ6,Φ7,Φ8,Φ9,Φ10,Φ11.5,Φ12,Φ13,Φ14,Φ15,Φ16,Φ16.5,Φ17,Φ18,Φ19,Φ20,Φ21,Φ21.5,Φ22,Φ22.5,Φ23,Φ23.5,Φ24,Φ24.8,Φ25,Φ25.5,Φ26,Φ28,Φ29.3,Φ30,Φ31,Φ31.5,Φ32,Φ32.2,Φ33.5,Φ35,Φ36,Φ32.8,Φ37.3,Φ38,Φ40,Φ40.2,Φ41.3,Φ42.5,Φ44.5,Φ45,Φ46,Φ47.5,Φ48,Φ49,Φ49.2,Φ49.5,Φ50,Φ50.8,Φ51,Φ53.5,Φ54,Φ55,Φ58,Φ60,Φ60.5,Φ62.2,Φ63,Φ63.5,Φ64.5,Φ65,Φ68,Φ69,Φ69.5,Φ70,Φ72,Φ72.5,Φ74,Φ74.5,Φ75,Φ76,Φ77,Φ77.1,Φ80,Φ81,Φ82,Φ84,Φ85,Φ86,Φ88,Φ89,Φ89.5,Φ89.7,Φ90,Φ95,Φ96,Φ100,Φ100.5,Φ101,Φ105,Φ108,Φ110,Φ111,Φ115,Φ117,Φ120,Φ123,Φ125,Φ127,Φ128,Φ130,Φ133,Φ137,Φ139,Φ140,Φ140.5,Φ146,Φ150,Φ152,Φ155,Φ160,Φ165,Φ170,Φ177.8,Φ180,Φ184.5,Φ190,Φ199.7,Φ200.2,Φ203.2,Φ207,Φ200,Φ210,Φ220,Φ224,Φ234,Φ240,Φ250,Φ152,Φ154.5,Φ164,Φ256,Φ270,Φ280,Φ292,Φ300,Φ0315,Φ350,Φ400,Φ7.5,Φ127,Φ31.5,Φ32,Φ87.3,Φ103,Φ114.3,Φ125.6,Φ126.8,Φ135,Φ168.2,Φ173,Φ12.8,Φ33.78,Φ83.5,Φ107.5,Φ134,Φ136,Φ152,Φ154.4,Φ164  
方管型号:  
8\*8,10\*10,13\*13,17\*17,25\*25,35\*35,45\*45,50\*50,50\*25,54.7\*54.7,67\*67,70\*70,76\*76,97\*97,122\*122,143\*10.8,80\*80,100\*100,128\*128,150\*150,100\*70

以上样品及信息由客户提供。

SGS 工作编号: SHP23-014545

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授权签名

Carol Luo 罗萍  
批准签署人

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Testing Center - China

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# 检测报告

编号: SHAEC23015826702

日期: 2023年10月09日

第2页, 共9页

样品接收时间: 2023年09月28日  
 检测周期: 2023年09月28日 ~ 2023年10月09日  
 检测要求: 根据客户要求检测。  
 检测方法: 见后续页。  
 检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(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)	符合
卤素	见检测结果

## 检测结果:

### 检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SHA23-0158267-0001.C001	灰色固体管

### 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

**欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(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)**

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, 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。

检测项目	限值	单位	MDL	A1
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND
二溴联苯(DiBB)	-	mg/kg	5	ND
三溴联苯(TriBB)	-	mg/kg	5	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND



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检测项目	限值	单位	MDL	A1
七溴联苯(HeptaBB)	-	mg/kg	5	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND
十溴二苯醚(DecaBDE)	-	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	70
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

### 备注:

- (1) 最大允许限值引用自 RoHS 指令(EU) 2015/863。
- (2) IEC 62321 系列等同于 EN 62321 系列。
- (3) 2021年7月22号开始, DEHP, BBP, DBP 和 DIBP 的限制适用于医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。

### 卤素

检测方法: 参考 EN 14582:2016, 采用 IC 进行分析。

检测项目	单位	MDL	A1
氟 (F)	mg/kg	20	239
氯 (Cl)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 ( $w=0$ ) 的二元判定规则进行符合性判定。  
 除非另有说明, 此报告结果仅对检测的样品负责。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。



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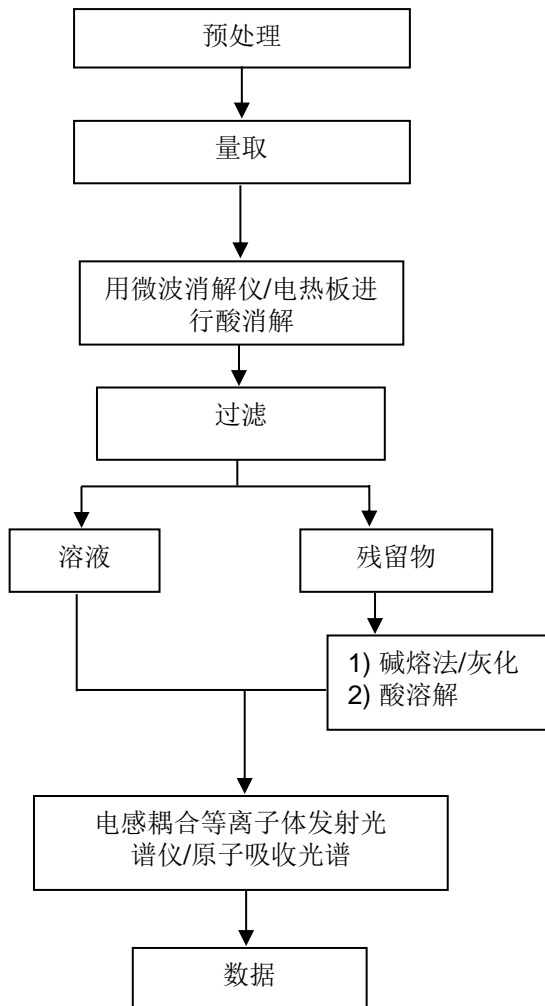
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附件

### 元素检测流程图

样品按照下述流程被完全消解

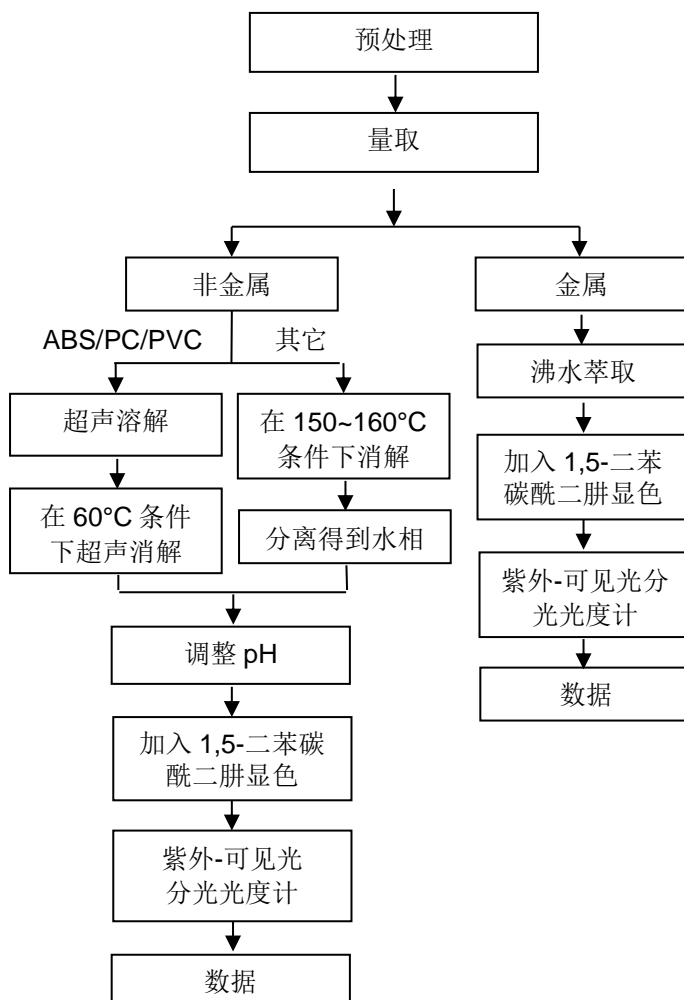


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## 六价铬检测流程图



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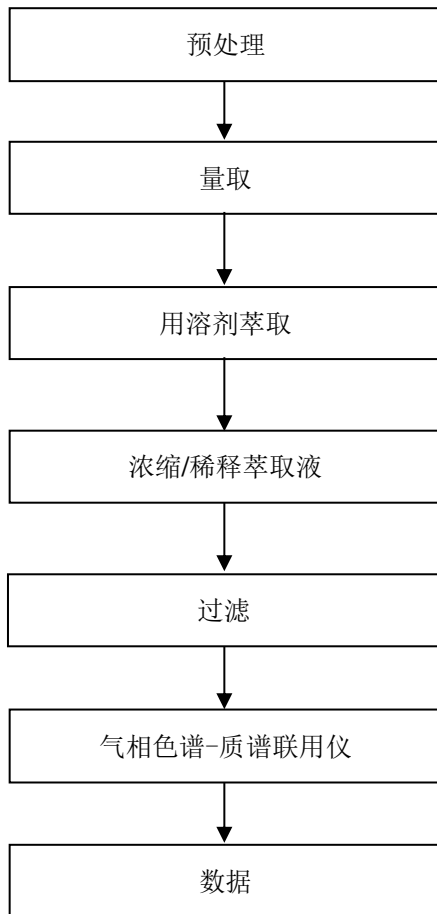
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### PBBs/PBDEs 检测流程图



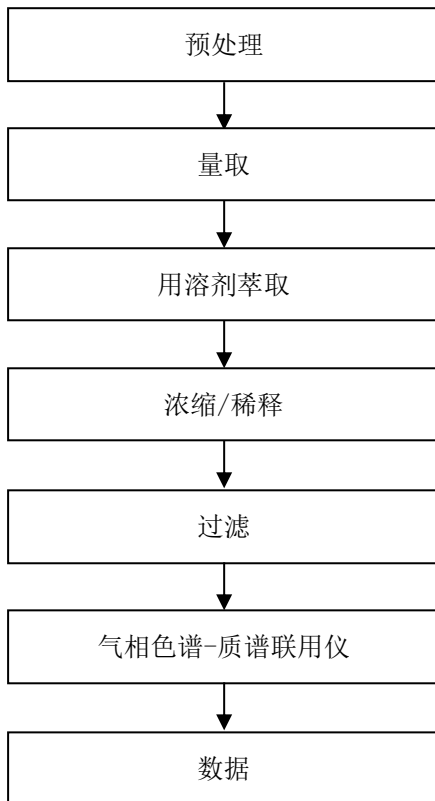
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### Phthalates 检测流程图



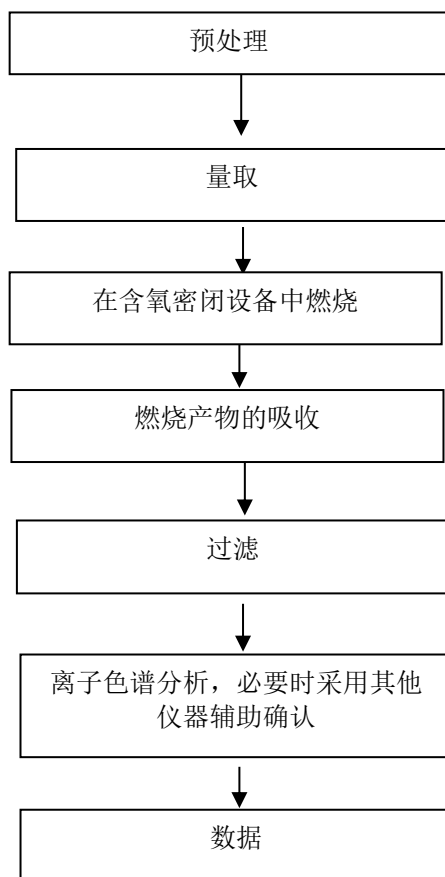
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