

测试报告

No. CANEC1716302218

日期: 2017年09月04日 第1页,共21页

浙江冠豪新材料有限公司

浙江省平湖市新仓镇仓庆路888号

以下测试之样品是由申请者所提供及确认: 铜版纸不干胶标签

SGS工作编号: CP17-046314 - GZ
型号: A1HG3
客户参考信息: 适用于: AAHG3,AAHT1,AA120,A1HG4,AA190,AA250,AA290,
AASG3,AASP1,AASG7,A1HK1,A1HG7,A1HT1,A1HT4 ,A1HG9,A1HP1,
A1SP1,A1SG3,A1SG7,A1MG3,A1MP1,A1AG3,A1LG3,A2HG3,A2SG3,
A2MG3,A2HP3,A2250,A3HG3,A3510,A3SG3,A3MG3,A4HG3,A4SG3,
A4MG3,AJ400,A4170,A4HG8,A4252,A5HG3,A5SG3,A5180,A6HG3,
A6470,A6471,A6190,A6211,A6SG3,A6MG3,A6MGZ,A7MGZ,A7HG3,
A7HG4,A7SG3,A7SG4,A7SG7,A7SG9,A7AG3,A7100,A7120,A7230,
A7AG3,AJ700,AJ720,A7LG3,A7LG5,A7MG3,A7MG7,A7MG4,A7083,
A8HG1,A8HG3,A8HG4,A8SG3,A8250,A8SG7,A8100,A8210,A8MG3,
A8MG7,A8MPZ,A8MPZ,A8110,A8ST1,A9604,A9694,ABHG3,ABSG3,
AJC00,AB250,ABSG8,ABMG3,AD100,AD202,AD203,ACMGZ,C1HG3,
C1HG9,C1HP1,C1SP1,C1LG3,C1250,C1251,C1SG3,C1HK1,C1SK1,
C1AG3,CR001,CJ100,A0100,A0250,AR001,A7RK1,CR001,AP800,
AP840,AH8881,AM8881

主要成份: 铜版纸,高粘永久胶,通用型热熔胶,冷冻型热熔胶,低温型热熔胶,通用膜胶,
全侯型胶,可移胶,格拉辛离型纸,淋膜离型纸,PET离型膜,CCK离型纸

样品接收日期: 2017年08月17日
测试周期: 2017年08月17日 - 2017年08月30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。



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按客户要求对样品进行测试, 所提供样品的可溶性元素含量的测试结果不超过欧洲玩具安全标准EN 71-3:2013+A1:2014的限值。

通标标准技术服务有限公司广州分公司

授权签名

史丽兰

Violet, Shi 史丽兰

批准签署人

备注:本报告是编号为CANEC1716302217报告的中文版本。



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测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	CAN17-163022.001	白色纸(1#)
SN2	CAN17-163022.002	白色纸(2#)
SN3	CAN17-163022.003	透明膜(3#)
SN4	CAN17-163022.004	白色纸(4#)
SN5	CAN17-163022.007	白色纸(半成品,7#)
SN6	CAN17-163022.013	白色液体(13#)
SN7	CAN17-163022.014	棕色软物料(14#)
SN8	CAN17-163022.015	白色液体(15#)
SN9	CAN17-163022.016	黄色软物料(16#)
SN10	CAN17-163022.017	白色液体(17#)
SN11	CAN17-163022.018	白色液体(18#)
SN12	CAN17-163022.019	棕色软物料(19#)

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

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

测试方法: 参考 IEC 62321-4:2013, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 和 IEC62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析.

测试项目	限值	单位	MDL	001	002	003
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1,000	mg/kg	2	ND	ND	ND
汞 (Hg)	1,000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))	1,000	mg/kg	8	ND	ND	ND
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND	ND	ND
一溴联苯	-	mg/kg	5	ND	ND	ND
二溴联苯	-	mg/kg	5	ND	ND	ND
三溴联苯	-	mg/kg	5	ND	ND	ND
四溴联苯	-	mg/kg	5	ND	ND	ND



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测试项目	限值	单位	MDL	001	002	003
五溴联苯	-	mg/kg	5	ND	ND	ND
六溴联苯	-	mg/kg	5	ND	ND	ND
七溴联苯	-	mg/kg	5	ND	ND	ND
八溴联苯	-	mg/kg	5	ND	ND	ND
九溴联苯	-	mg/kg	5	ND	ND	ND
十溴联苯	-	mg/kg	5	ND	ND	ND
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND	ND	ND
一溴二苯醚	-	mg/kg	5	ND	ND	ND
二溴二苯醚	-	mg/kg	5	ND	ND	ND
三溴二苯醚	-	mg/kg	5	ND	ND	ND
四溴二苯醚	-	mg/kg	5	ND	ND	ND
五溴二苯醚	-	mg/kg	5	ND	ND	ND
六溴二苯醚	-	mg/kg	5	ND	ND	ND
七溴二苯醚	-	mg/kg	5	ND	ND	ND
八溴二苯醚	-	mg/kg	5	ND	ND	ND
九溴二苯醚	-	mg/kg	5	ND	ND	ND
十溴二苯醚	-	mg/kg	5	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND	ND	ND

测试项目	限值	单位	MDL	004	007	013
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1,000	mg/kg	2	ND	ND	ND
汞 (Hg)	1,000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))	1,000	mg/kg	8	ND	ND	ND
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND	ND	ND
一溴联苯	-	mg/kg	5	ND	ND	ND
二溴联苯	-	mg/kg	5	ND	ND	ND
三溴联苯	-	mg/kg	5	ND	ND	ND
四溴联苯	-	mg/kg	5	ND	ND	ND
五溴联苯	-	mg/kg	5	ND	ND	ND
六溴联苯	-	mg/kg	5	ND	ND	ND
七溴联苯	-	mg/kg	5	ND	ND	ND
八溴联苯	-	mg/kg	5	ND	ND	ND
九溴联苯	-	mg/kg	5	ND	ND	ND
十溴联苯	-	mg/kg	5	ND	ND	ND
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND	ND	ND



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测试项目	限值	单位	MDL	004	007	013
一溴二苯醚	-	mg/kg	5	ND	ND	ND
二溴二苯醚	-	mg/kg	5	ND	ND	ND
三溴二苯醚	-	mg/kg	5	ND	ND	ND
四溴二苯醚	-	mg/kg	5	ND	ND	ND
五溴二苯醚	-	mg/kg	5	ND	ND	ND
六溴二苯醚	-	mg/kg	5	ND	ND	ND
七溴二苯醚	-	mg/kg	5	ND	ND	ND
八溴二苯醚	-	mg/kg	5	ND	ND	ND
九溴二苯醚	-	mg/kg	5	ND	ND	ND
十溴二苯醚	-	mg/kg	5	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND	ND	ND

测试项目	限值	单位	MDL	014	015	016
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1,000	mg/kg	2	ND	ND	ND
汞 (Hg)	1,000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))	1,000	mg/kg	8	ND	ND	ND
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND	ND	ND
一溴联苯	-	mg/kg	5	ND	ND	ND
二溴联苯	-	mg/kg	5	ND	ND	ND
三溴联苯	-	mg/kg	5	ND	ND	ND
四溴联苯	-	mg/kg	5	ND	ND	ND
五溴联苯	-	mg/kg	5	ND	ND	ND
六溴联苯	-	mg/kg	5	ND	ND	ND
七溴联苯	-	mg/kg	5	ND	ND	ND
八溴联苯	-	mg/kg	5	ND	ND	ND
九溴联苯	-	mg/kg	5	ND	ND	ND
十溴联苯	-	mg/kg	5	ND	ND	ND
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND	ND	ND
一溴二苯醚	-	mg/kg	5	ND	ND	ND
二溴二苯醚	-	mg/kg	5	ND	ND	ND
三溴二苯醚	-	mg/kg	5	ND	ND	ND
四溴二苯醚	-	mg/kg	5	ND	ND	ND
五溴二苯醚	-	mg/kg	5	ND	ND	ND
六溴二苯醚	-	mg/kg	5	ND	ND	ND
七溴二苯醚	-	mg/kg	5	ND	ND	ND



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测试项目	限值	单位	MDL	014	015	016
八溴二苯醚	-	mg/kg	5	ND	ND	ND
九溴二苯醚	-	mg/kg	5	ND	ND	ND
十溴二苯醚	-	mg/kg	5	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND	ND	ND

测试项目	限值	单位	MDL	017	018	019
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1,000	mg/kg	2	ND	ND	ND
汞 (Hg)	1,000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))	1,000	mg/kg	8	ND	ND	ND
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND	ND	ND
一溴联苯	-	mg/kg	5	ND	ND	ND
二溴联苯	-	mg/kg	5	ND	ND	ND
三溴联苯	-	mg/kg	5	ND	ND	ND
四溴联苯	-	mg/kg	5	ND	ND	ND
五溴联苯	-	mg/kg	5	ND	ND	ND
六溴联苯	-	mg/kg	5	ND	ND	ND
七溴联苯	-	mg/kg	5	ND	ND	ND
八溴联苯	-	mg/kg	5	ND	ND	ND
九溴联苯	-	mg/kg	5	ND	ND	ND
十溴联苯	-	mg/kg	5	ND	ND	ND
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND	ND	ND
一溴二苯醚	-	mg/kg	5	ND	ND	ND
二溴二苯醚	-	mg/kg	5	ND	ND	ND
三溴二苯醚	-	mg/kg	5	ND	ND	ND
四溴二苯醚	-	mg/kg	5	ND	ND	ND
五溴二苯醚	-	mg/kg	5	ND	ND	ND
六溴二苯醚	-	mg/kg	5	ND	ND	ND
七溴二苯醚	-	mg/kg	5	ND	ND	ND
八溴二苯醚	-	mg/kg	5	ND	ND	ND
九溴二苯醚	-	mg/kg	5	ND	ND	ND
十溴二苯醚	-	mg/kg	5	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND	ND	ND



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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/wwwf?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

EN 71-3:2013+A1:2014 - 可溶性元素含量(类别III:可刮取的玩具材料)

测试方法: 参考EN 71-3:2013+A1:2014, 采用 ICP-OES进行分析。

测试项目	限值	单位	MDL	007
可溶性铝(Al)	70,000	mg/kg	50	114
可溶性锑(Sb)	560	mg/kg	10	ND
可溶性砷(As)	47	mg/kg	10	ND
可溶性钡(Ba)	18,750	mg/kg	50	ND
可溶性硼(B)	15,000	mg/kg	50	ND
可溶性镉(Cd)	17	mg/kg	5	ND
可溶性三价铬(Cr (III))	460	mg/kg	5	ND
可溶性六价铬(Cr (VI))	0.2	mg/kg	0.18	ND
可溶性钴(Co)	130	mg/kg	10	ND
可溶性铜(Cu)	7,700	mg/kg	50	ND
可溶性铅(Pb)	160	mg/kg	10	ND
可溶性锰(Mn)	15,000	mg/kg	50	ND
可溶性汞(Hg)	94	mg/kg	10	ND
可溶性镍(Ni)	930	mg/kg	10	ND
可溶性有机锡	12	mg/kg	-	ND
可溶性硒(Se)	460	mg/kg	10	ND
可溶性锶(Sr)	56,000	mg/kg	50	ND
可溶性锡(Sn)	180,000	mg/kg	4.9	ND
可溶性锌(Zn)	46,000	mg/kg	50	ND

备注:

- 1 可溶性三价铬=可溶性总铬-可溶性六价铬
- 2.如果可溶性总铬的结果, 不超过EN 71-3:2013+A1:2014规定的可溶性三价铬和可溶性六价铬的要求, 则不要求做可溶性三价铬和可溶性六价铬的确认性测试。
- 3.如果可溶性总锡的结果, 经过换算后不超过EN 71-3:2013+A1:2014规定的可溶性有机锡的要求, 则不要做可溶性有机锡的确认性测试。

卤素

测试方法: 参考EN 14582:2016, 用 IC分析。



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No. CANEC1716302218

日期: 2017年09月04日 第8页,共21页

测试项目	单位	MDL	007
氟 (F)	mg/kg	50	ND
氯 (Cl)	mg/kg	50	396
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

石棉

测试方法: 参考NIOSH 9000:1994和NIOSH 9002:1994, 采用XRD和PLM进行分析。

测试项目	CAS NO.	单位	MDL	007
温石棉	12001-29-5	% (m/m)	0.1	阴性
铁石棉	12172-73-5	% (m/m)	0.1	阴性
青石棉	12001-28-4	% (m/m)	0.1	阴性
直闪石	77536-67-5	% (m/m)	0.1	阴性
透闪石	77536-68-6	% (m/m)	0.1	阴性
阳起石	77536-66-4	% (m/m)	0.1	阴性

备注:

(1)阴性表示未检出石棉, 阳性表示检出石棉。

全氟辛烷磺酸(PFOS)

测试方法: 参考CEN/TS15968:2010方法, 用 LC-MS分析。

测试项目	CAS NO.	单位	MDL	007
全氟辛烷磺酸及其衍生物 (PFOS)^	-	mg/kg	10	ND

备注:

(1) ^全氟辛烷磺酸(PFOS)及其衍生物包含全氟辛烷磺酸(PFOS)、全氟辛基磺酰胺(PFOSA)、2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE)、N-甲基全氟辛烷磺酰胺(MeFOSA)、N-乙基全氟辛烷磺酰胺(EtFOSA)和2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE)。

多环芳香烃(PAHs)



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测试方法: 参考AfPS GS 2014:01 PAK测试, 采用 GC-MS进行分析。

测试项目	CAS NO.	单位	MDL	007
萘 (NAP)	91-20-3	mg/kg	0.1	ND
蒽(ANY)	208-96-8	mg/kg	0.1	ND
蒽(萘嵌戊烷) (ANA)	83-32-9	mg/kg	0.1	ND
芴 (FLU)	86-73-7	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
蒎 (ANT)	120-12-7	mg/kg	0.1	ND
荧蒎 (FLT)	206-44-0	mg/kg	0.1	ND
芘 (PYR)	129-00-0	mg/kg	0.1	ND
苯并(a)蒎 (BaA)	56-55-3	mg/kg	0.1	ND
屈 (CHR)	218-01-9	mg/kg	0.1	ND
苯并(b)荧蒎 (BbF)	205-99-2	mg/kg	0.1	ND
苯并(j)荧蒎 (BjF)	205-82-3	mg/kg	0.1	ND
苯并(k)荧蒎 (BkF)	207-08-9	mg/kg	0.1	ND
苯并(a)芘 (BaP)	50-32-8	mg/kg	0.1	ND
苯并(e)芘 (BeP)	192-97-2	mg/kg	0.1	ND
茚并(1,2,3-c,d)芘 (IPY)	193-39-5	mg/kg	0.1	ND
二苯并(a,h)蒎(DBA)	53-70-3	mg/kg	0.1	ND
苯并(g,h,i)芘(二萘嵌苯) (BPE)	191-24-2	mg/kg	0.1	ND
7项多环芳香烃总和[蒽(ANY), 蒽(萘嵌戊烷) (ANA), 芴 (FLU), 菲 (PHE), 芘 (PYR), 蒎 (ANT), 荧蒎 (FLT)]		mg/kg	-	ND
18项多环芳香烃总和		mg/kg	-	ND



AfPS (德国产品安全委员会):GS 认证对多环芳香烃的要求

参数	1 类		2 类		3 类	
	设计意图为放入口中的材料或者玩具上与皮肤接触的材料 (接触时间大于30秒).		未在 1 类规定中涵盖的材料,且可能与皮肤接触时间大于 30 秒的材料 (长时间接触皮肤)或频繁接触皮肤.		未在 1 和 2 类规定中涵盖的材料,且可能与皮肤接触的少于 30 秒的材料(短期接触皮肤)	
		2009/48/EC 中适用的玩具	产品安全法涉及的其他产品	2009/48/EC中适用的玩具	产品安全法涉及的其他产品	
苯并(a)芘 (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
苯并(e)芘 (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
苯并(a)蒽 (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
苯并(b)荧蒽 (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
苯并(j)荧蒽 (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
苯并(k)荧蒽 mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
屈 (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
二苯并(a,h)蒽(DBA)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
苯并(g,h,i)花(二苯并苯)(BPE)n mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
茚并(1,2,3-c,d)芘 (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
萘烯(ANY), 萘(萘嵌戊烷)(ANA), 芴 (FLU), 菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)之和 mg/kg	< 1 (总和)	< 5 (总和)	< 10 (总和)	< 20 (总和)	< 50 (总和)	
萘 (NAP) mg/kg	< 1	< 2		< 10		
18 PAH之和	<1	< 5	< 10	< 20	< 50	

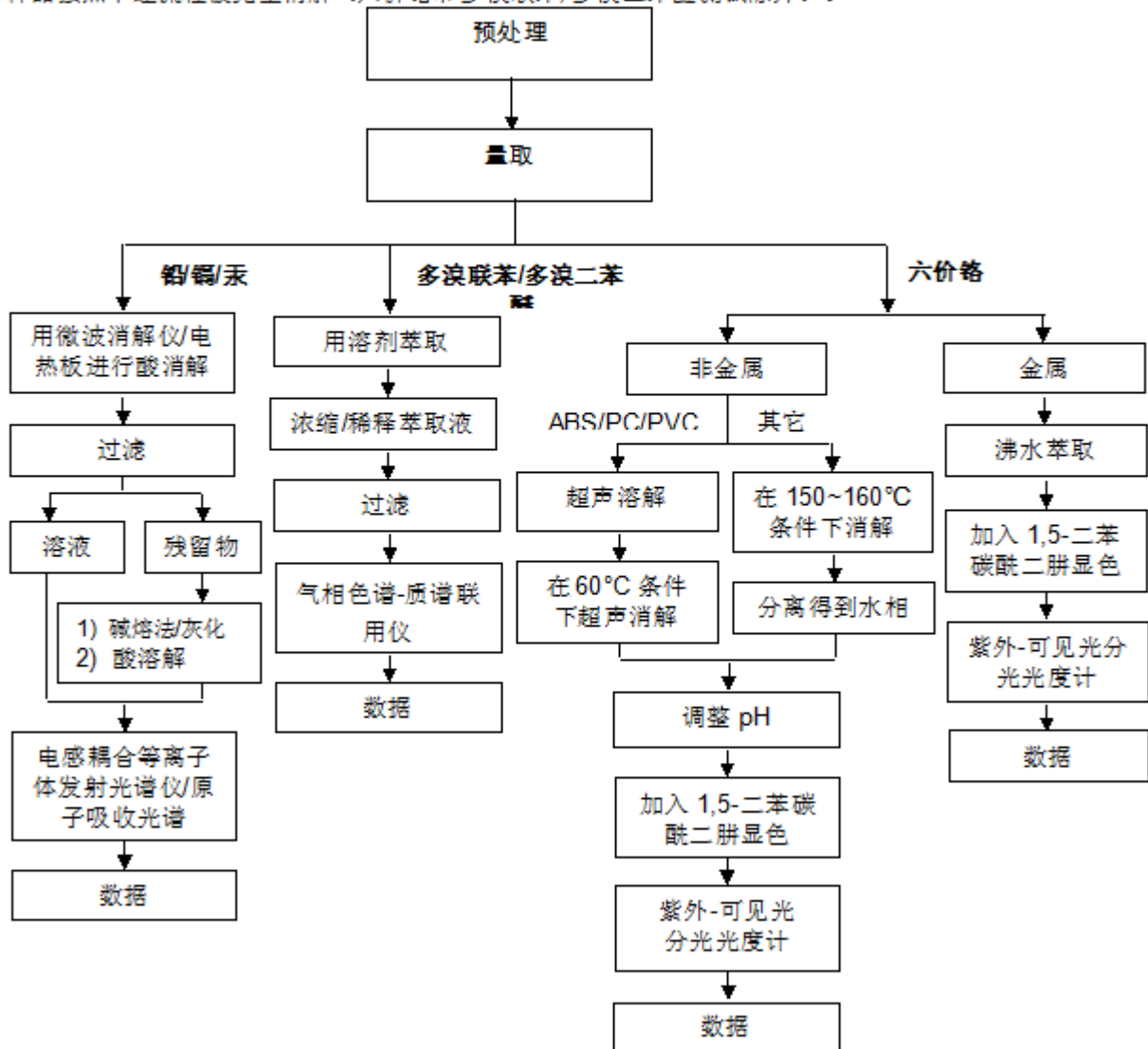
备注: 所示结果013,015,017,018 为湿样品总重量中的含量。



附件

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 测试流程图

- 1) 分析人员: 张梓路 / 胡香云
- 2) 项目负责人: 汪丹 / 刘琼
- 3) 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)。



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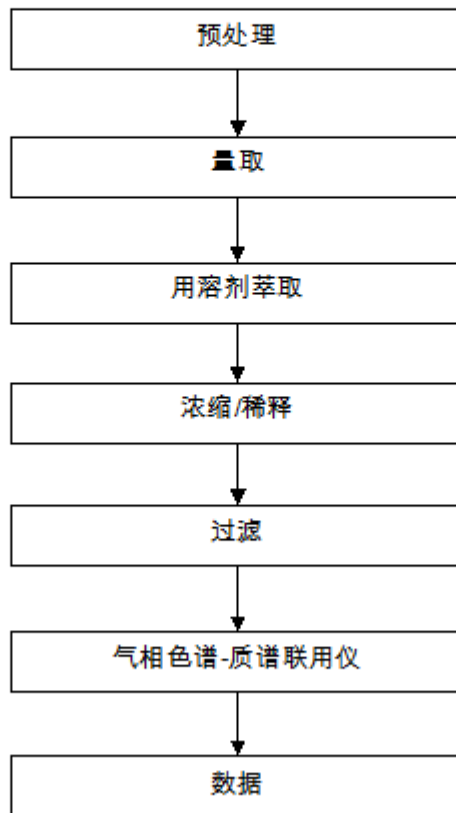
SGS-CSTC 标准技术服务有限公司 广州分公司
Guangzhou Branch Testing Center Chemical Laboratory

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附件

Phthalates 测试流程图

- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



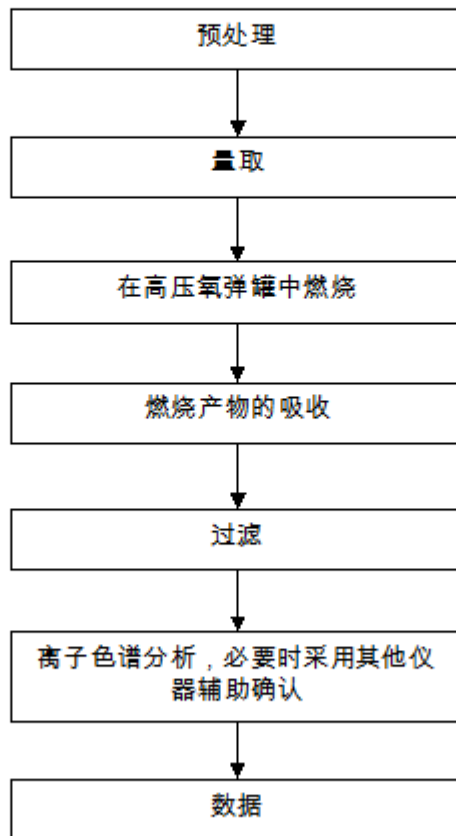
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Halogen 测试流程图

- 1) 分析人员: 肖戈
- 2) 项目负责人: 汪丹



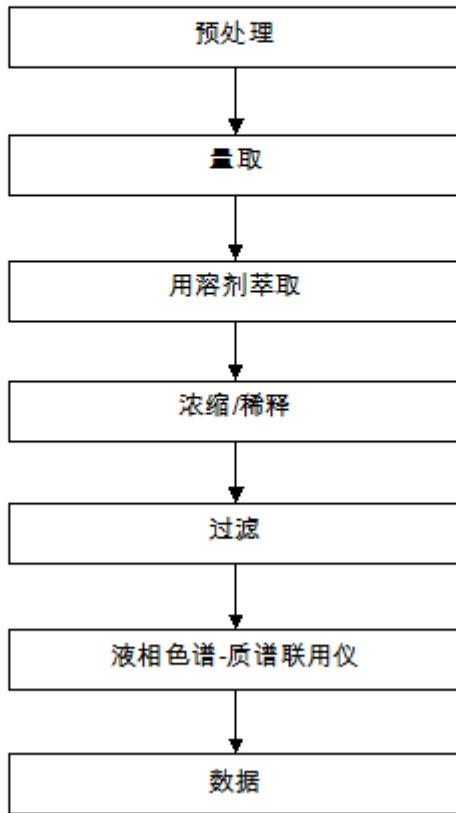
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附件

PFOA / PFOS 测试流程图

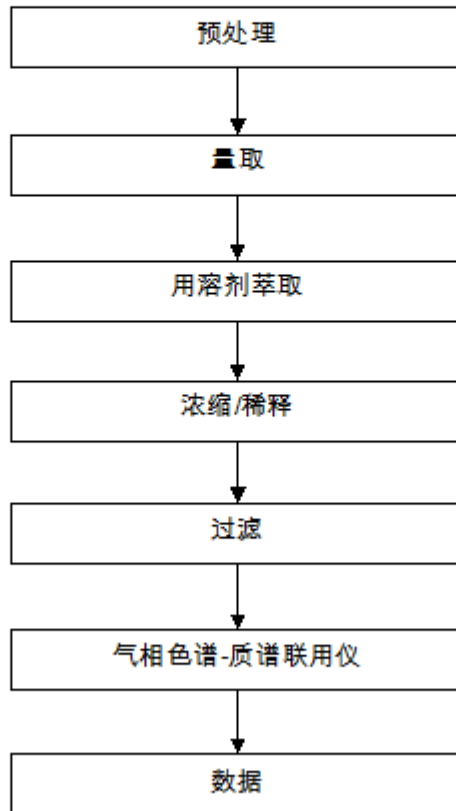
- 1) 分析人员: 王志红
- 2) 项目负责人: 刘琼



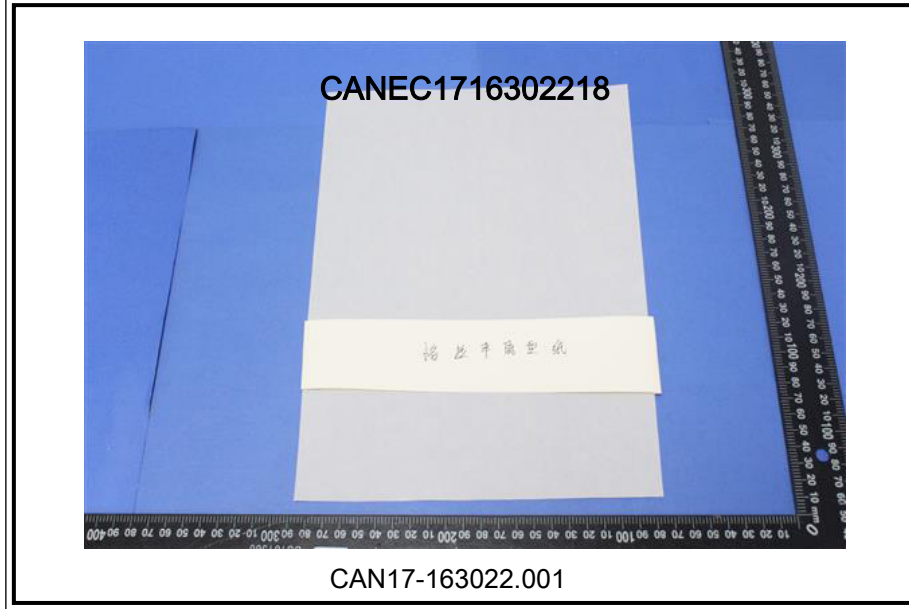
附件

PAHs测试流程图

- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



样品照片:





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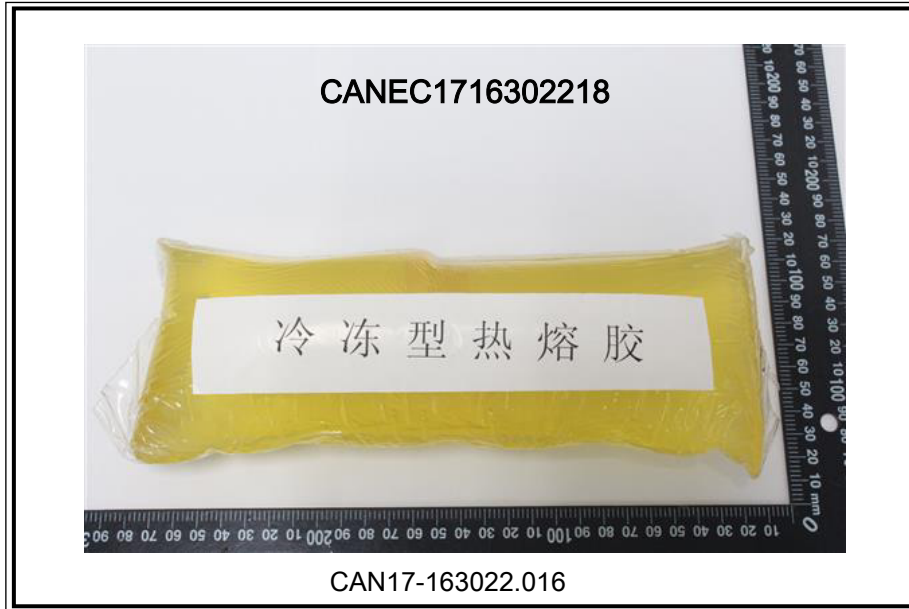
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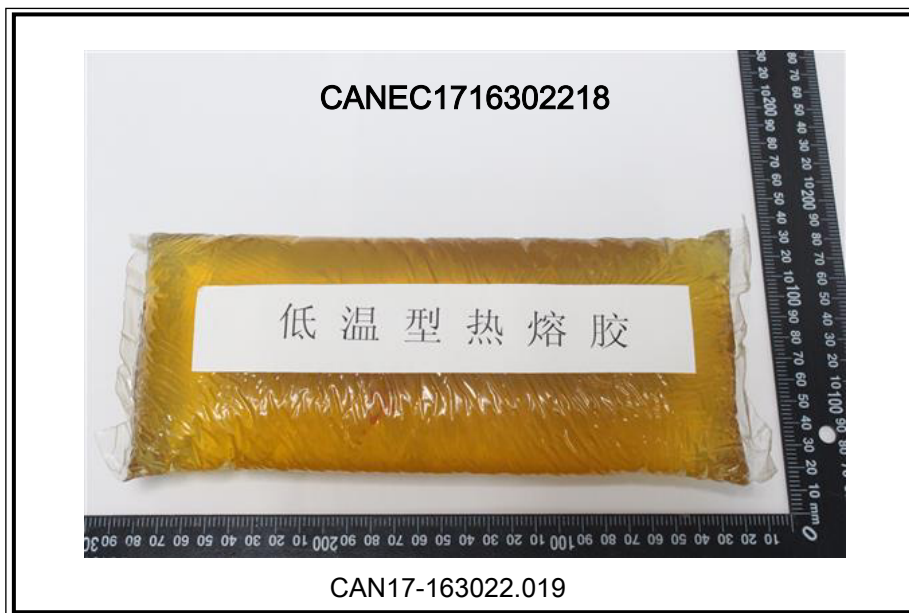


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