

测试报告

No. CANEC1625518720

日期: 2017年01月05日 第1页,共18页

昆山汉品电子有限公司
中国昆山市玉山镇城北五联路698号

以下测试之样品是由申请者所提供及确认: 铝箔胶带

SGS工作编号: CP16-077339 - GZ
测试样品信息: XPH10503
客户参考信息: 见备注
样品接收日期: 2016年12月26日
测试周期: 2016年12月26日 - 2017年01月04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))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。

通标标准技术服务有限公司广州分公司
授权签名

吕爱凤

Merry Lv吕爱凤
批准签署人

备注: 本报告是编号为CANEC1625518719报告的中文版本。



测试报告

No. CANEC1625518720

日期: 2017年01月05日 第2页,共18页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	CAN16-255187.004	银色粘性片

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:
- (1)参考IEC 62321-5:2013, 用ICP-OES测定镉的含量。
 - (2)参考IEC 62321-5:2013, 用ICP-OES测定铅的含量。
 - (3)参考IEC 62321-4:2013, 用ICP-OES测定汞的含量。
 - (4)参考IEC 62321:2008, 用紫外-可见分光光度计比色法测定六价铬的含量。
 - (5)参考IEC 62321-6:2015, 用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚)的含量。
 - (6)参考IEC 62321-8 :2013(111/321/CD), 用GC-MS测定邻苯二甲酸酯的含量。

测试项目	限值	单位	MDL	004
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	5
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	1,000	mg/kg	2	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



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测试项目	限值	单位	MDL	004
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
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。

卤素

测试方法: 参考EN 14582:2016, 用 IC分析。

测试项目	单位	MDL	004
氟 (F)	mg/kg	50	ND
氯 (Cl)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

四溴双酚-A

测试方法: 参照 US EPA 3540C: 1996方法测定, 采用GC-MS&HPLC-MS进行分析。

测试项目	单位	MDL	004
四溴双酚-A	mg/kg	10	ND

富马酸二甲酯(DMF)

测试方法: SGS 内部方法 (GZTC CHEM-TOP-095), 用GC-MS分析。



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测试项目	限值	单位	MDL	004
富马酸二甲酯(DMF)	0.1	mg/kg	0.1	ND
评论				符合

备注:

备注: 最大允许极限值引用REACH法规(EC) No 1907/2006附录XVII的修正指令(EU) No 412/2012指令(以往由2012/48/EU监管)

六溴环十二烷(HBCDD)

测试方法: 参考 IEC 62321:2008, 用 GC-MS 分析。

测试项目	单位	MDL	004
六溴环十二烷(HBCDD)	mg/kg	10	ND

邻苯二甲酸盐(或酯)

测试方法: 参考EN 14372: 2004的方法测定, 采用GC-MS进行分析。

测试项目	CAS NO.	单位	MDL	004
邻苯二甲酸二丁酯 (DBP)	84-74-2	%(w/w)	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%(w/w)	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%(w/w)	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.010	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%(w/w)	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.010	ND
邻苯二甲酸二甲酯 (DMP)	131-11-3	%(w/w)	0.003	ND
邻苯二甲酸二乙酯 (DEP)	84-66-2	%(w/w)	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%(w/w)	0.003	ND
邻苯二甲酸二壬酯 (DNP)	84-76-4	%(w/w)	0.003	ND
邻苯二甲酸二异辛酯 (DIOP)	27554-26-3	%(w/w)	0.010	ND
邻苯二甲酸二丙酯 (DPrP)	131-16-8	%(w/w)	0.003	ND
邻苯二甲酸二环己酯 (DCHP)	84-61-7	%(w/w)	0.003	ND
邻苯二甲酸二正戊酯 (DnPP)	131-18-0	%(w/w)	0.003	ND
邻苯二甲酸二苄酯 (DBzP)	523-31-9	%(w/w)	0.003	ND
邻苯二甲酸二苯酯 (DPhP)	84-62-8	%(w/w)	0.003	ND



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测试项目	CAS NO.	单位	MDL	004
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%(w/w)	0.003	ND

备注:

- (1) DBP, BBP, DEHP参考信息: 1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第51条 (前身为2005/84/EC) 的要求:
 - i) 不允许DBP, BBP, DEHP质量浓度高于0.1%的可塑性物料用于玩具和儿童护理品.
 - ii) 当玩具和儿童护理品中的可塑性物料含DBP, BBP, DEHP质量浓度高于0.1%时,不得投放市场. 详细信息请参见Regulation (EC) No 552/2009
- (2) DINP, DNOP, DIDP参考信息: 1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第52条 (前身为2005/84/EC) 的要求:
 - i) 不允许DINP, DNOP, DIDP质量浓度高于0.1%的可塑性物料用于可放入儿童口中的玩具和儿童护理品.
 - ii) 当可放入儿童口中的玩具和儿童护理品中的可塑性物料含DINP, DNOP, DIDP质量浓度高于0.1%时,不得投放市场. 详细信息请参见Regulation (EC) No 552/2009.

全氟辛酸(PFOA)和全氟辛烷磺酸(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	004
全氟辛酸(PFOA)	335-67-1	mg/kg	10	ND
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)

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	004
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
蒽 (ANT)	120-12-7	mg/kg	0.1	ND



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测试项目	CAS NO.	单位	MDL	004
荧蒽 (FLT)	206-44-0	mg/kg	0.1	ND
芘 (PYR)	129-00-0	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	56-55-3	mg/kg	0.1	ND
屈 (CHR)	218-01-9	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	205-99-2	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	205-82-3	mg/kg	0.1	ND
苯并(k)荧蒽 (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)蒽(DBA)	53-70-3	mg/kg	0.1	ND
苯并(g,h,i)芘(二苯并(a,h)芘) (BPE)	191-24-2	mg/kg	0.1	ND
7项多环芳香烃总和[苊烯(ANY), 苊(蒽嵌戊烷) (ANA), 芴 (FLU), 菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (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
蒽苯(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:

XPH1M252 XPH1M352 XPH1M502 XPH1MA02 XPH1MA52 XPH1M**2 XPH1H502
 XPH1HA02 XPH1H**2 XPH10170 XPH100A XPH200A XPH10252 XPH10352
 XPH10502 XPH11002 XPH11502 XPH1***2 XPH1M200 XPH10LA XPH200C
 XPH1MB2 XPH1MA2 XPH1MG2 XPH1M*2 XPH1YA2 XPH1YC3 XPH1YB2
 XPH1Y*2 XPH1Y*3 XPH1Y*4 XPH1Y*5 XPH1Y*6 XPH1Y*7 XPH1M250 PH10YA XPH200*
 XPH1M203 XPH1M253 XPH1M353 XPH1M503 XPH1MA03
 XPH1MA53 XPH1M**3 XPH1Y253 XPH1Y**3 XPH1H503 XPH1H753 XPH1HA03
 XPH1H**3 XPH1M380 XPH10DA XPH20DC XPH10253 XPH10353 XPH10503
 XPH11003 XPH11503 XPH1***3 XPH1M500 XPH10*A XPH20DA XPH1MB3
 XPH1MC3 XPH1MG3 XPH1M*3 XPH10P03 XPH1M750 XPH100C XPH20YA
 XPH1M104 XPH1M204 XPH1M2A4 XPH1M254 XPH1M354 XPH1M504 XPH1MA04
 XPH1M**4 XPH1MA00 XPH10DC XPH20YB XPH10104 XPH10254 XPH10354
 XPH10504 XPH1***4 XPH1MA30 XPH10YC XPH20YC XPH1MC4 XPH1MB4
 XPH1MG4 XPH1M*4 XPH1R00 XPH1YK01 XPH1YK02 XPH1MA50 XPH10*C
 XPH10PC XPH10256 XPH1***6 XPH1MB6 XPH1MC6 XPH1MG6 XPH1M*6
 XPH1M**0 XPH110W XPH20BC XPH1M507 XPH1M**7 XPH1MA7 XPH1MB7
 XPH1MG7 XPH1M*7 XPH1M*8 XPH1M*9 XPH1M09 XPH1M170 XPH100*
 XPH1M**8 XPH1M**9 XPH1***8 XPH1***9 XPH10200 XPH110* XPH1MV02
 XPH1MVB2 XPH1MV*2 XPH1MV03 XPH1MVB3 XPH1MV*3 XPH1MV04 XPH1MVB4
 XPH1MV*4 XPH10BT XPH10250 XPH10PA XPH1MT02 XPH1MT03 XPH1MT04
 XPH1MTB2 XPH1MTB3 XPH1MTB4 XPH1MT*2 XPH1MT*3 XPH1MT*4 XPH1025L
 XPH1M500A XPH1100F XPH1***F XPH1APAF XPH1030F XPH10380 XPH10500A
 XPH1RA2 XPH1RA3 XPH1R*2 XPH1R*3 XPH1MR2 XPH1MR3 XPH1MR4
 XPH1MR5 XPH1MR6 XPH1MR7 XPH10400 XPH1050DA XPH10500 XPH11000A
 XPH10600 XPH10500C XPH10510 XPH11000C XPH1Y800 XPH1050DA XPH11000
 XPH1050PA XPH11350 XPH11500 XPH12400 XPH12500 XPH1***0 XPH1APA0
 XPH1PAP0 XPH1060L XPH1100A XPH1M**A XPH1***A XPH1M252**
 XPH1M352** XPH1M502** XPH1MA02** XPH1MA52** XPH1M**2** XPH1H502**
 XPH1HA02** XPH1H**2** XPH10170** XPH100A** XPH200A** XPH10252** XPH10352**
 XPH10502** XPH11002** XPH11502** XPH1***2** XPH1M200** XPH10LA** XPH200C**
 XPH1MB2** XPH1MA2** XPH1MG2** XPH1M*2** XPH1YA2** XPH1YC3** XPH1YB2**
 XPH1Y*2** XPH1Y*3** XPH1Y*4** XPH1Y*5** XPH1Y*6** XPH1Y*7** XPH1M250**
 XPH10YA** XPH200*** XPH1M203** XPH1M253** XPH1M353** XPH1M503** XPH1MA03**
 XPH1MA53** XPH1M**3** XPH1Y253** XPH1Y**3** XPH1H503** XPH1H753** XPH1HA03**
 XPH1H**3** XPH1M380** XPH10DA** XPH20DC** XPH10253** XPH10353** XPH10503**
 XPH11003** XPH11503** XPH1***3** XPH1M500** XPH10*A** XPH20DA** XPH1MB3**
 XPH1MC3** XPH1MG3** XPH1M*3** XPH10P03** XPH1M750** XPH100C** XPH20YA**
 XPH1M104** XPH1M204** XPH1M2A4** XPH1M254** XPH1M354** XPH1M504** XPH1MA04**
 XPH1M**4** XPH1MA00** XPH10DC** XPH20YB** XPH10104** XPH10254** XPH10354**
 XPH10504** XPH1***4** XPH1MA30** XPH10YC** XPH20YC** XPH1MC4** XPH1MB4**
 XPH1MG4** XPH1M*4** XPH1R00** XPH1YK01** XPH1YK02** XPH1MA50** XPH10*C
 XPH10PC** XPH10256** XPH1***6** XPH1MB6** XPH1MC6** XPH1MG6** XPH1M*6**



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测试报告

No. CANEC1625518720

日期: 2017年01月05日 第9页,共18页

XPH1M**0** XPH110W** XPH20BC**XPH1M507** XPH1M**7** XPH1MA7** XPH1MB7**
 XPH1MG7** XPH1M*7** XPH1M*8** XPH1M*9** XPH1M09**XPH1M170** XPH100***
 XPH1M**8** XPH1M**9** XPH1***8** XPH1***9** XPH10200** XPH110*** XPH1MV02**
 XPH1MVB2** XPH1MV*2** XPH1MV03** XPH1MVB3** XPH1MV*3** XPH1MV04** XPH1MVB4**
 XPH1MV*4** XPH10BT**XPH10250** XPH10PA** XPH1MT02** XPH1MT03** XPH1MT04**
 XPH1MTB2** XPH1MTB3** XPH1MTB4** XPH1MT*2** XPH1MT*3** XPH1MT*4**
 XPH1025L** XPH1M500A** XPH1100F**XPH1***F** XPH1APAF** XPH1030F** XPH10380**
 XPH10500A** XPH1RA2**XPH1RA3**XPH1R*2** XPH1R*3** XPH1MR2** XPH1MR3**
 XPH1MR4** XPH1MR5** XPH1MR6** XPH1MR7** XPH10400** XPH1050DA**
 XPH10500** XPH11000A** XPH10600** XPH10500C** XPH10510** XPH11000C** XPH1Y800**
 XPH1050DA** XPH11000** XPH1050PA** XPH11350** XPH11500** XPH12400** XPH12500**
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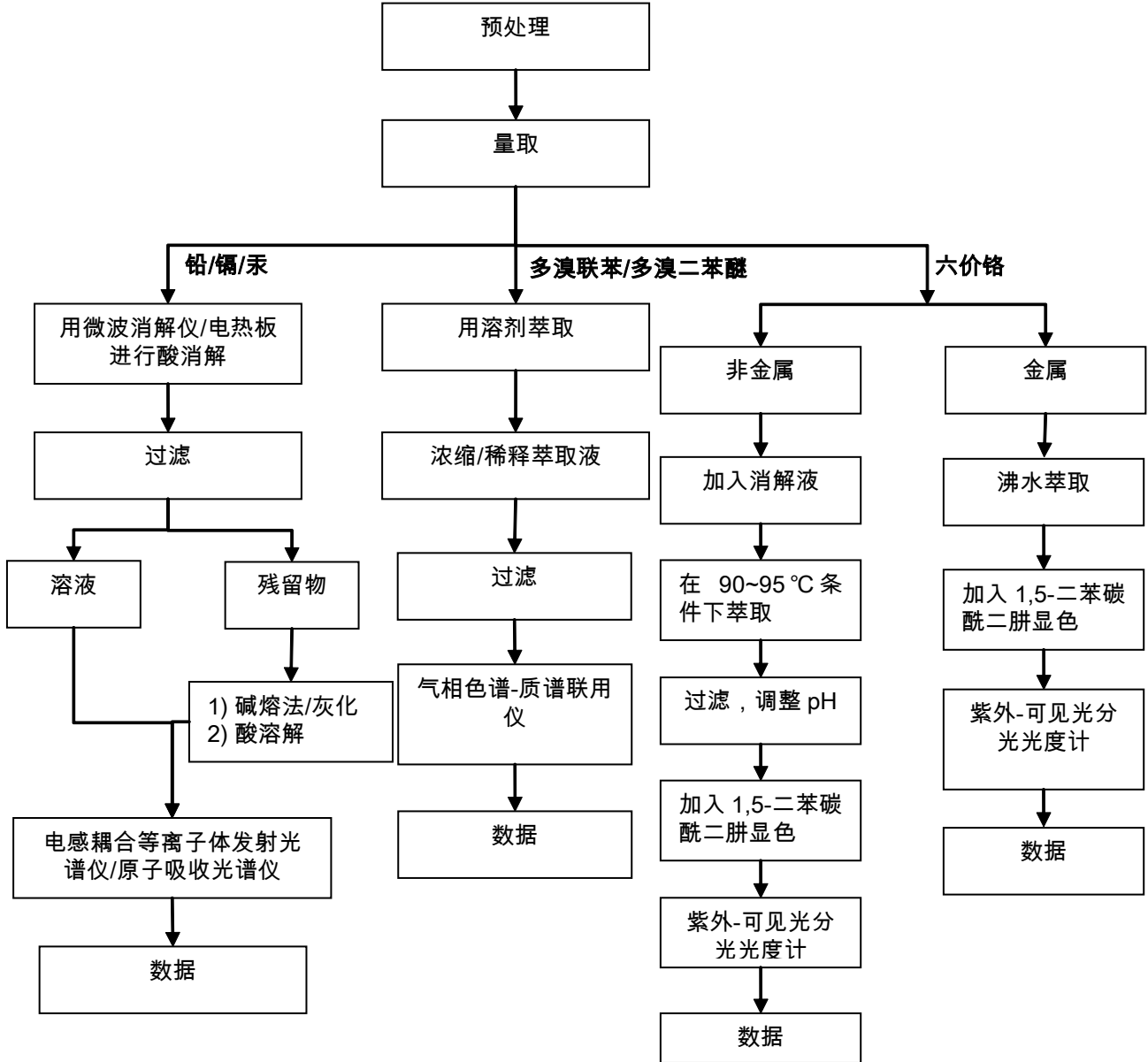
备注：“*”表示 0~9或A~Z中的任意一个



附件

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 测试流程图

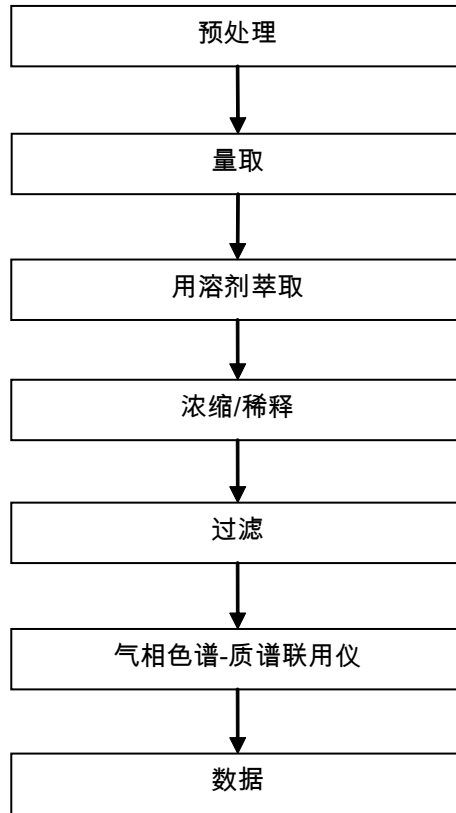
- 1) 分析人员：张梓路 / 胡香云
- 2) 项目负责人：汪丹 / 刘琼
- 3) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)。



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Phthalates 测试流程图

- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



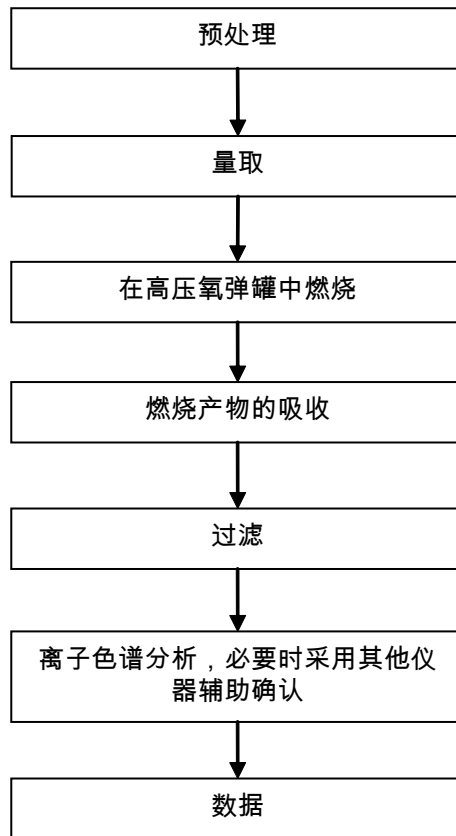
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Halogen 测试流程图

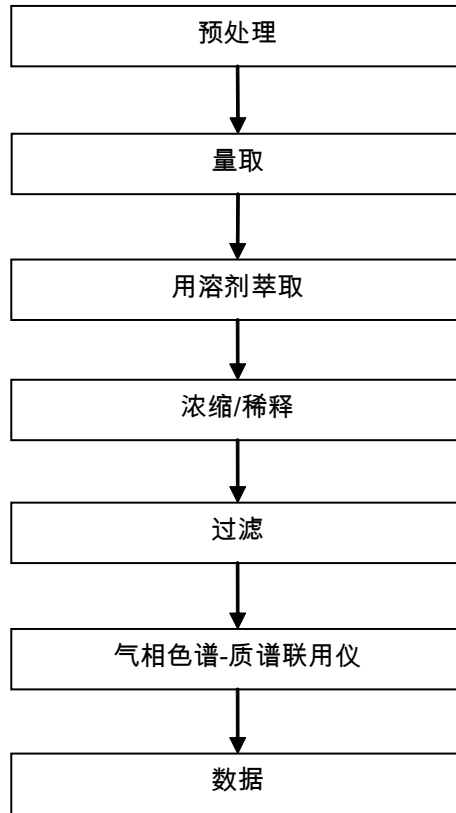
- 1) 分析人员: 肖戈
- 2) 项目负责人: 汪丹



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HBCDD 测试流程图

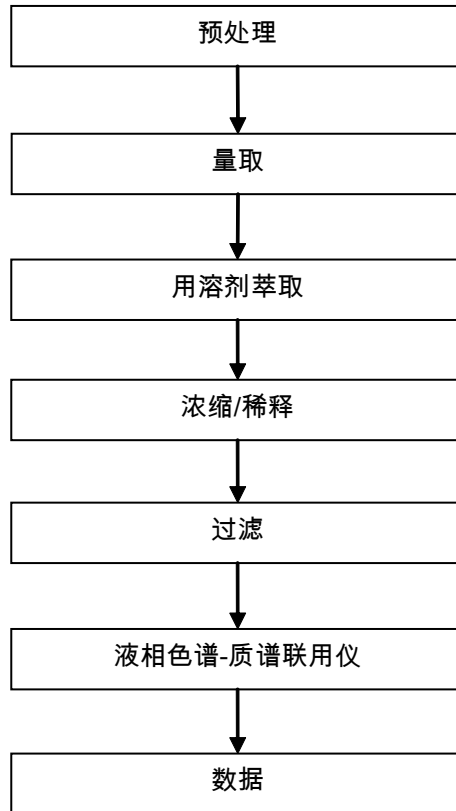
- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



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PFOA / PFOS 测试流程图

- 1) 分析人员 : 王志红
- 2) 项目负责人 : 刘琼



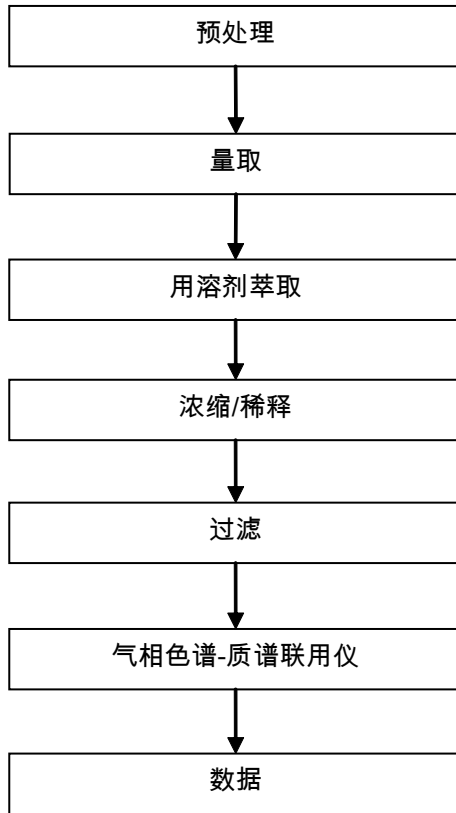
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PAHs 测试流程图

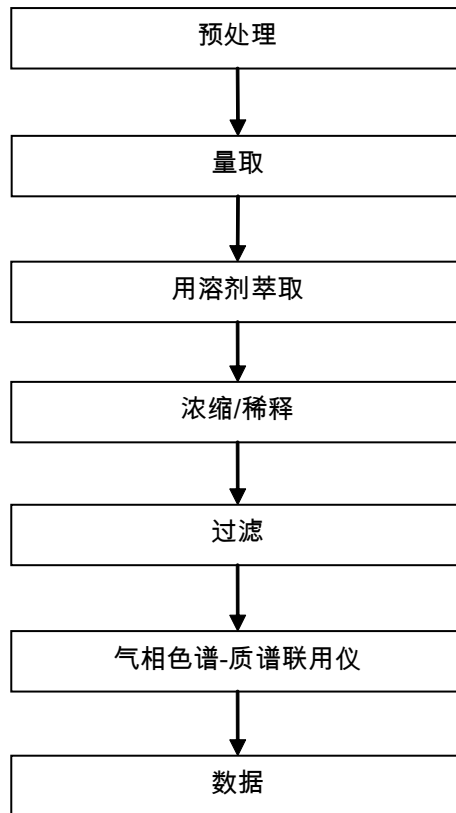
- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



附件

Dimethyl Fumarate 测试流程图

- 1) 分析人员：胡香云
- 2) 项目负责人：刘琼



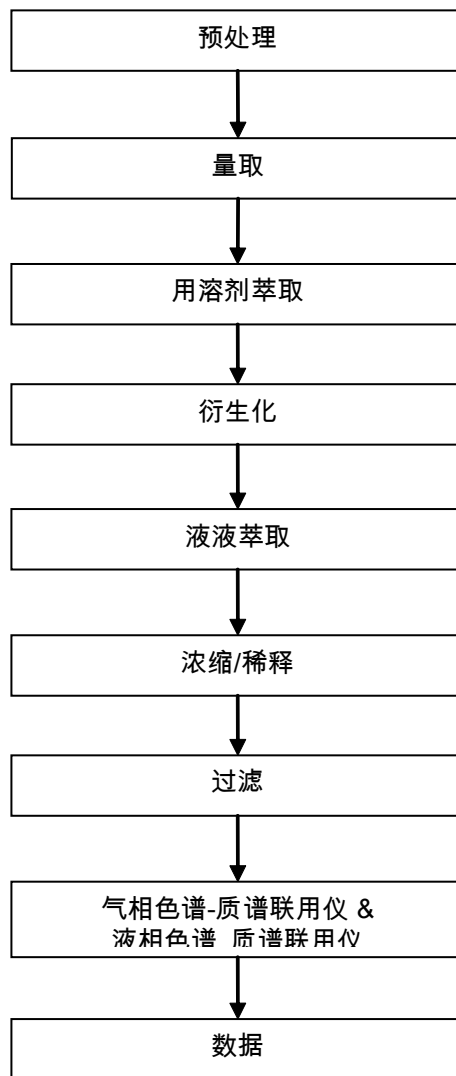
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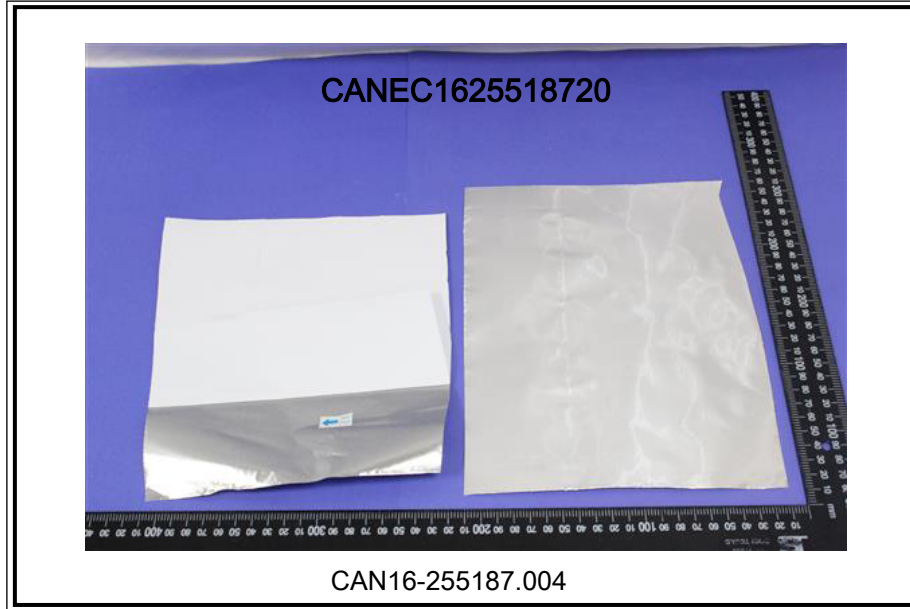
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TBBP-A 测试流程图

- 1) 分析人员：张金花
- 2) 项目负责人：刘琼



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