

测试报告

No. CANEC1625518732

日期: 2017年01月05日 第1页,共14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: 导电织品

SGS工作编号: CP16-077339 - GZ
测试样品信息: XPHF1004
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CANEC1625518731报告的中文版本。



测试报告

No. CANEC1625518732

日期: 2017年01月05日 第2页,共14页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	CAN16-255187.006	带双面粘性的灰色片

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	006
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	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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日期: 2017年01月05日 第3页,共14页

测试项目	限值	单位	MDL	006
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	006
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	006
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	006
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	006
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	006
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	006
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	006
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)。



备注:

XPHF0001	XPHF2001	XPHF11G4	XPHF20C3	XPHF1RT3**	XPHF4003**
XPHF1001	XPHF23	XPHF1**6	XPHF0001**	XPHF2001**	XPHF11G4**
XPHF1002	XPHF1104	XPHF1A03	XPHF1001**	XPHF23**	XPHF1**6**
XPHF1003	XPHF1008	XPHF1R06	XPHF1002**	XPHF1104**	XPHF1A03**
XPHF1004	XPHD***A	XPHF1R16	XPHF1003**	XPHF1008**	XPHF1R06**
XPHF1005	XPHF1R02	XPHF1R*6	XPHF1004**	XPHD***A**	XPHF1R16**
XPHD100A	XPHF1R12	XPHF2R06	XPHF1005**	XPHF1R02**	XPHF1R*6**
CAT-DD-010	XPHF1R*2	XPHF1RT8	XPHD100A**	XPHF1R12**	XPHF2R06**
XPHF0002	XPHF2R03	XPHF6003	CAT-DD-010**	XPHF1R*2**	XPHF1RT8**
XPH1101	XPHF10T8	XPHF11P4	XPHF0002**	XPHF2R03**	XPHF6003**
XPHF1012	XPHF3001	XPHF1**7	XPH1101**	XPHF10T8**	XPHF11P4**
XPHF1013	XPHF20G3	XPHF1R07	XPHF1012**	XPHF3001**	XPHF1**7**
XPHF1014	XPHF2004	XPHF1R17	XPHF1013**	XPHF20G3**	XPHF1R07**
XPHF1006	XPHF1009	XPHF1R*7	XPHF1014**	XPHF2004**	XPHF1R17**
XPHD190A	XPHF1V03	XPHF2R07	XPHF1006**	XPHF1009**	XPHF1R*7**
XPHF1R04	XPHF1R03	XPHF30G3	XPHD190A**	XPHF1V03**	XPHF2R07**
XPHF1R14	XPHF1R13	XPHF1**4	XPHF1R04**	XPHF1R03**	XPHF30G3**
XPHF1R*4	XPHF1R*3	XPHF1**8	XPHF1R14**	XPHF1R13**	XPHF1**4**
XPHF2R01	XPHF2R04	XPHF1R08	XPHF1R*4**	XPHF1R*3**	XPHF1**8**
XPHF1RT4	XPHF10T4	XPHF1R18	XPHF2R01**	XPHF2R04**	XPHF1R08**
XPHF0**1	XPHF2**1	XPHF1R*8	XPHF1RT4**	XPHF10T4**	XPHF1R18**
XPHF1**1	XPHF2003	XPHF2R08	XPHF0**1**	XPHF2**1**	XPHF1R*8**
XPHF1**2	XPHF11C4	XPHF1**3	XPHF1**1**	XPHF2003**	XPHF2R08**
XPHF1103	XPHF1**5	XPHF1**9	XPHF1**2**	XPHF11C4**	XPHF1**3**
XPHF1114	XPHF1C03	XPHF1R09	XPHF1103**	XPHF1**5**	XPHF1**9**
XPHF1007	XPHF1R05	XPHF1R19	XPHF1114**	XPHF1C03**	XPHF1R09**
XPHD300A	XPHF1R15	XPHF1R*9	XPHF1007**	XPHF1R05**	XPHF1R19**
XPHF1R01	XPHF1R*5	XPHF2R09	XPHD300A**	XPHF1R15**	XPHF1R*9**
XPHF1R11	XPHF2R05	XPHF1M13	XPHF1R01**	XPHF1R*5**	XPHF2R09**
XPHF1R*1	XPHF10T3	XPHF4004	XPHF1R11**	XPHF2R05**	XPHF1M13**
XPHF2R02	XPHF4001	XPHF2C03	XPHF1R*1**	XPHF10T3**	XPHF4004**
XPHF1RT3	XPHF4003	XPHF10C3	XPHF2R02**	XPHF4001**	XPHF2C03**
XPHF10C3**	XPHF20C3**				

备注:**表示 0~9或A~Z中的任意一个



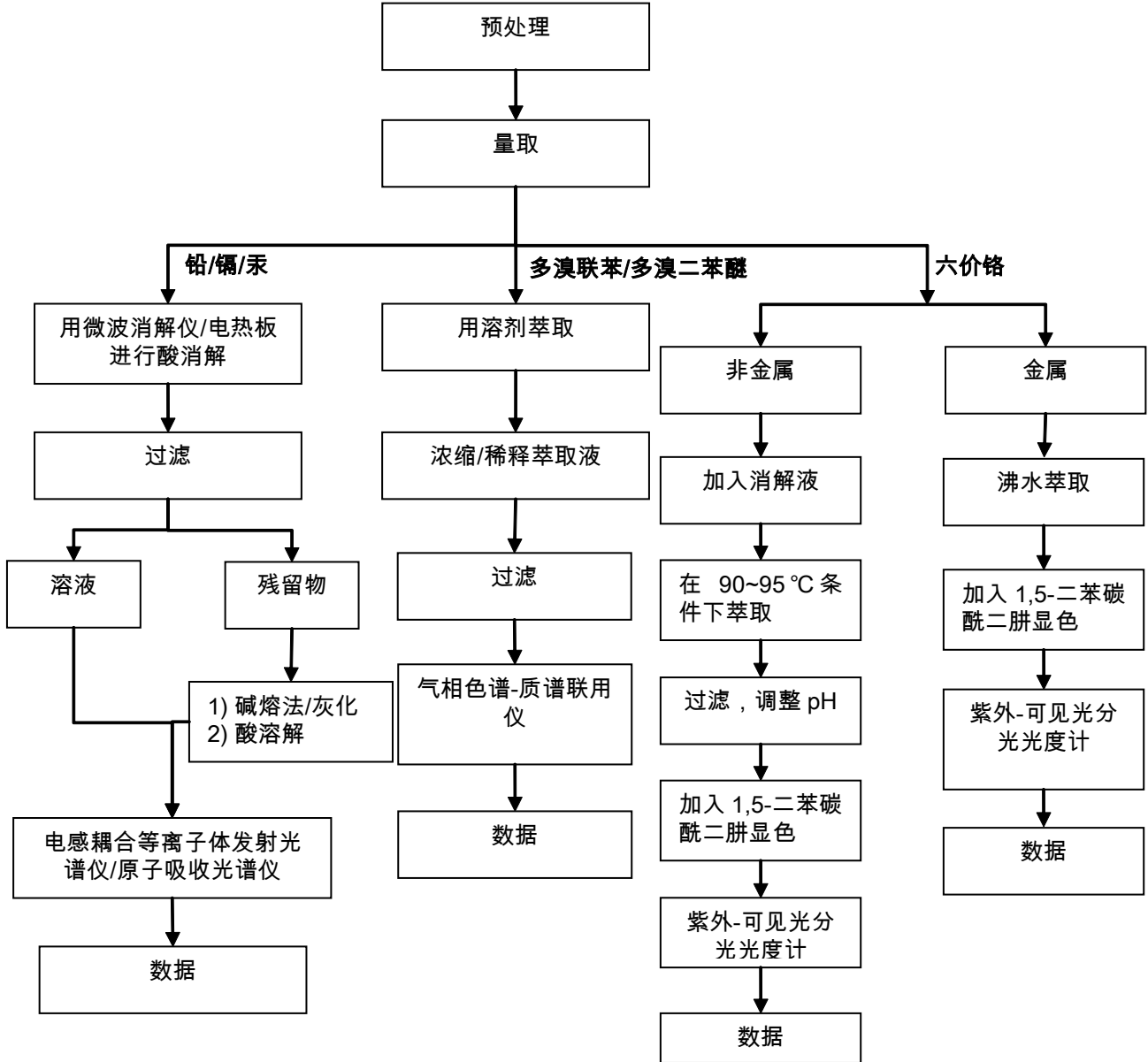
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附件

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 测试流程图

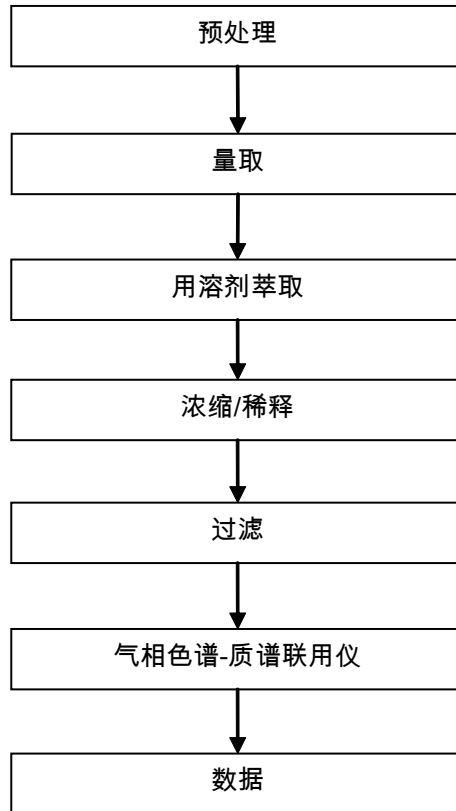
- 1) 分析人员：张梓路 / 胡香云
- 2) 项目负责人：汪丹 / 刘琼
- 3) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)。



附件

Phthalates 测试流程图

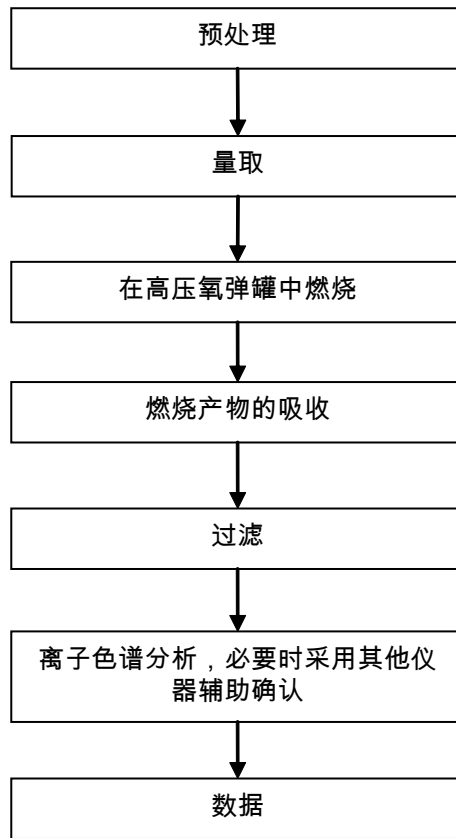
- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



附件

Halogen 测试流程图

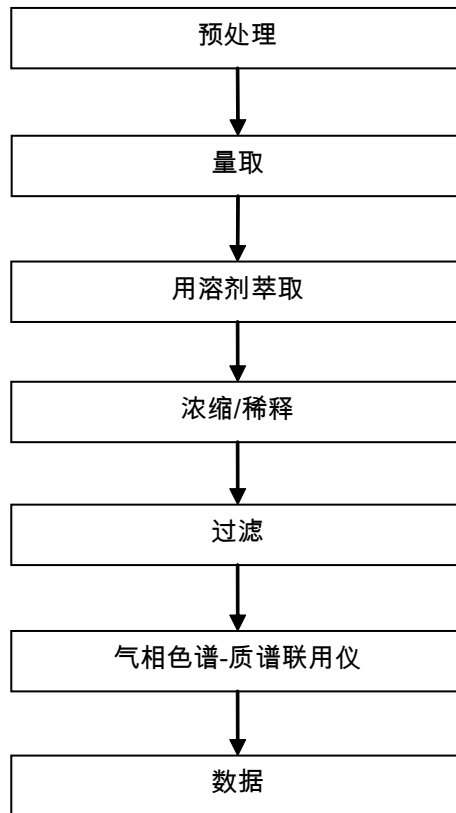
- 1) 分析人员: 肖戈
- 2) 项目负责人: 汪丹



附件

HBCDD 测试流程图

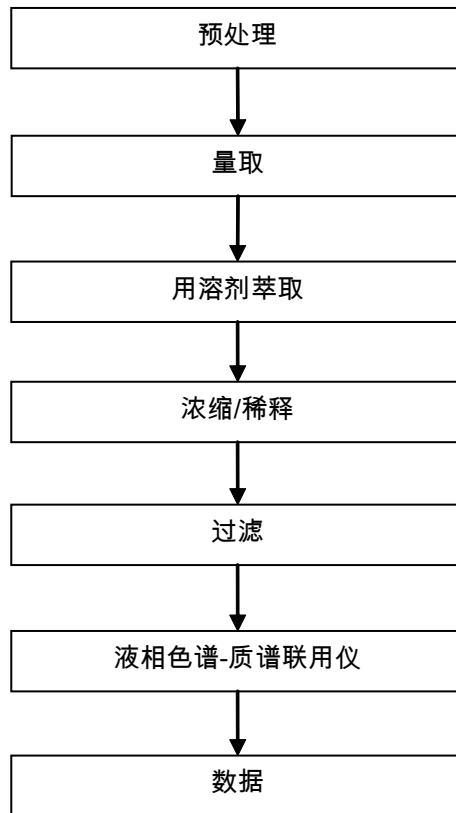
- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



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



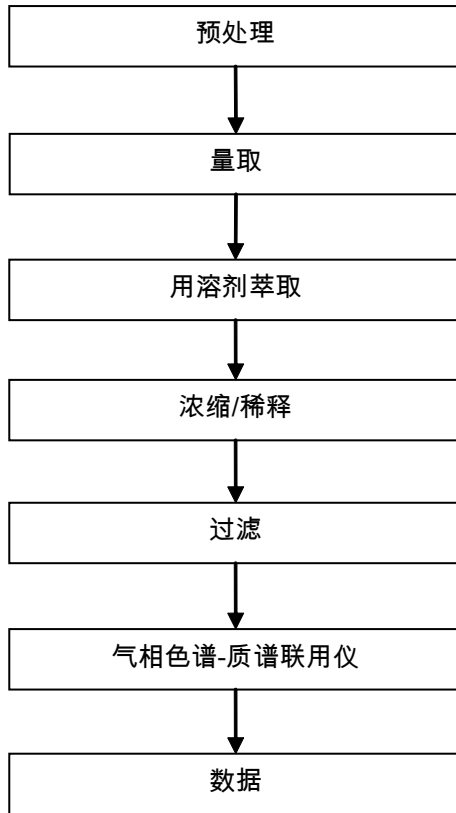
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Dimethyl Fumarate 测试流程图

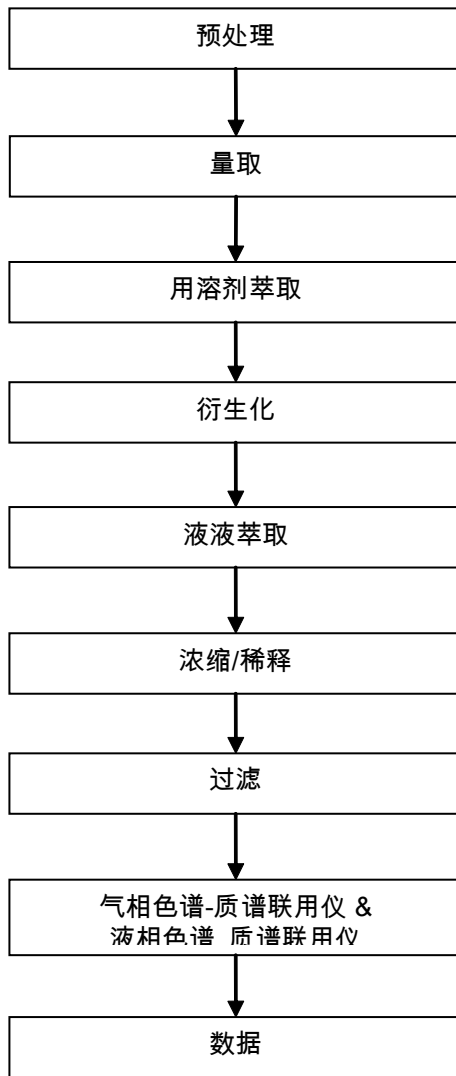
- 1) 分析人员：胡香云
- 2) 项目负责人：刘琼



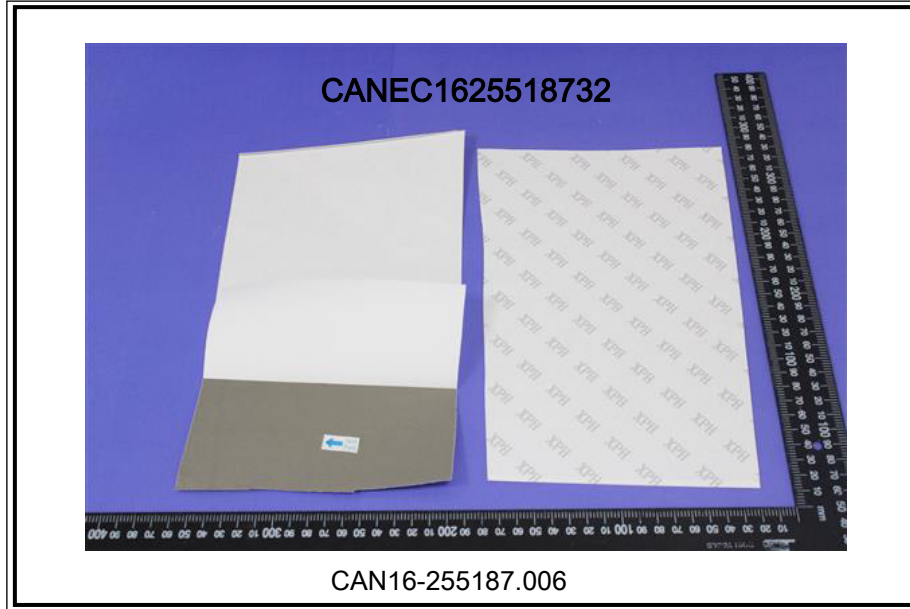
附件

TBBP-A 测试流程图

- 1) 分析人员：张金花
- 2) 项目负责人：刘琼



样品照片:



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