

测试报告 日期: 2019年11月27日 第1页,共34页 No. XMNML1901637203

好利来(中国)电子科技股份有限公司&好利来(厦门)电路保护科技有限公司 厦门市翔安区舫山东二路829号

本报告中样品001~006和008的测试结果和照片引用自报告XMNML1901637201。

以下测试之样品是由申请者所提供及确认:用于 5RF.5RT.5EF.5ET.SCH.SCT.SRT RoHS& Pb Free 系列的材料

XMIN1911008128PC - XM SGS工作编号:

样品接收日期: 2019年11月11日

测试周期: 2019年11月11日 - 2019年11月26日

测试要求: 根据客户要求测试 请参见下一页 测试方法: 测试结果: 请参见下一页

基于所送样品的指定部位进行的测试,镉、铅、汞、六价铬、多溴联 结论:

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-乙基已基)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。

中国・福建・厦门市火炬(翔安)产业区翔虹路31号

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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	XMN19-016372.001	红棕色塑料帽(被称为"塑料帽")
SN2	XMN19-016372.002	黑色塑料壳(被称为"底座")
SN3	XMN19-016372.003	铜色金属引脚(去掉银色金属镀层)(被称为"底座引线")
SN4	XMN19-016372.004	金属引脚上的银色金属镀层(被称为"引线镀层")
SN5	XMN19-016372.005	银色金属丝(被称为"线材2")
SN6	XMN19-016372.006	白色线(被称为"玻纤")
SN7	XMN19-016372.007	浅棕色沙子(被称为"石英砂")
SN8	XMN19-016372.008	银色金属丝(被称为"焊锡")
SN9	XMN19-016372.009	棕色小颗粒(被称为"凹凸棒土")

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+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。

<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>006</u>
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



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测试项目	<u>限值</u>	单位	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>006</u>
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
<u>测试项目</u>	限值	<u>单位</u>	<u>MDL</u>	<u>007</u>	<u>009</u>	
镉 (Cd)	100	mg/kg	2	ND	ND	
铅 (Pb)	1,000	mg/kg	2	ND	ND	
汞 (Hg)	1,000	mg/kg	2	ND	ND	
六价铬(Cr(VI))	1,000	mg/kg	8	ND	ND	
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND	ND	
一溴联苯	-	mg/kg	5	ND	ND	
二溴联苯	-	mg/kg	5	ND	ND	
三溴联苯	-	mg/kg	5	ND	ND	
四溴联苯	-	mg/kg	5	ND	ND	
五溴联苯	-	mg/kg	5	ND	ND	
六溴联苯	-	mg/kg	5	ND	ND	
七溴联苯	-	mg/kg	5	ND	ND	
八溴联苯	-	mg/kg	5	ND	ND	
九溴联苯	-	mg/kg	5	ND	ND	
十溴联苯	-	mg/kg	5	ND	ND	
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND	ND	
一溴二苯醚	-	mg/kg	5	ND	ND	
二溴二苯醚	-	mg/kg	5	ND	ND	
三溴二苯醚	-	mg/kg	5	ND	ND	





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<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>007</u>	<u>009</u>
四溴二苯醚	-	mg/kg	5	ND	ND
五溴二苯醚	-	mg/kg	5	ND	ND
六溴二苯醚	-	mg/kg	5	ND	ND
七溴二苯醚	-	mg/kg	5	ND	ND
八溴二苯醚	-	mg/kg	5	ND	ND
九溴二苯醚	-	mg/kg	5	ND	ND
十溴二苯醚	-	mg/kg	5	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP) 1000	ma/ka	50	ND	ND

1000

备注:

邻苯二甲酸二异丁酯(DIBP)

(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 https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258

mg/kg

50

ND

ND

- (2) 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。
- (3) DEHP, BBP, DBP 和 DIBP的限制不适用于玩具产品,因为No.1907/2006 附录XVII第51条已对玩具产品 中的DEHP, BBP, DBP 和 DIBP含量进行了限制。

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+A1:2017. IEC 62321-5:2013. IEC 62321-7-1:2015. 采用 ICP-OES 和 UV-Vis 进行分析。

测试项目	限值	<u>单位</u>	<u>MDL</u>	<u>003</u>	<u>005</u>	<u>008</u>
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1,000	mg/kg	2	3	13	11
汞 (Hg)	1,000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))▼	-	μg/cm²	0.10	ND	ND	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

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25

- (2) ▼=a. 当六价铬的浓度高于0.13 µg/cm²时,样品为阳性,即含有六价铬;
 - b. 当六价铬的浓度为ND(低于0.10 μg/cm²)时,样品为阴性,即未检测到六价铬;
 - c. 当六价铬的浓度介于0.10 μg/cm²与0.13 μg/cm²之间时,无法直接判定是否检测到六价铬,



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因不同个体的样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期,样品的六价铬测试结果仅能代表测试时样品含六 价铬的状态。

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+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, 采用 ICP-OES 和 UV-Vis 进行分析.

测试项目	限值	<u>单位</u>	<u>MDL</u>	<u>004</u>
镉 (Cd)	100	mg/kg	10	ND
汞 (Hg)	1,000	mg/kg	10	ND
铅 (Pb)	1,000	mg/kg	10	64
六价铬(Cr(VI))▼	-	µg/cm²	0.10	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

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25

- (2) ▼ = a. 当六价铬的浓度高于0.13 µg/cm2时,样品为阳性,即含有六价铬;
- b. 当六价铬的浓度为ND(低于0.10 µg/cm2)时,样品为阴性,即未检测到六价铬;
- c. 当六价铬的浓度介于0.10 μg/cm2与0.13 μg/cm2之间时,无法直接判定是否检测到六价铬,因不同个体 的样品表面差异可能会影响测定结果;

元素分析

测试方法: SGS内部方法(GZTC CHEM-TOP-004-01,参考EPA 3052: 1996).采用ICP-OES进行分析。

测试项目	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>006</u>
锑 (Sb)	mg/kg	10	ND	ND	ND
砷 (As)	mg/kg	10	ND	ND	ND
测试项目	<u>单位</u>	<u>MDL</u>	<u>007</u>	<u>009</u>	
锑 (Sb)	mg/kg	10	ND	ND	
砷 (As)	mg/kg	10	ND	ND	

卤素



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测试方法: 参考EN 14582:2016,用 IC分析。

<u>测试项目</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>006</u>
氟 (F)	mg/kg	50	ND	ND	163
氯 (CI)	mg/kg	50	ND	ND	92
溴 (Br)	mg/kg	50	ND	ND	ND
碘 (I)	mg/kg	50	ND	ND	ND

石棉

测试方法: 参考ISO 22262-1:2012,用PLM分析。

测试项目	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
温石棉	12001-29-5/13220	% (m/m)	0.1	阴性	阴性
铁石棉	12172-73-5	% (m/m)	0.1	阴性	阴性
青石棉	12001-28-4	% (m/m)	0.1	阴性	阴性
直闪石	77536-67-5	% (m/m)	0.1	阴性	阴性
透闪石	77536-68-6	% (m/m)	0.1	阴性	阴性
阳起石	77536-66-4	% (m/m)	0.1	阴性	阴性

备注:

- (1)阴性表示未检出石棉,阳性表示检出石棉。
- (2) 若PLM结果为阳性,用XRD确认。

锑 (Sb) 和 铍 (Be)

测试方法: SGS内部方法(GZTC CHEM-TOP-009-01,参考EPA 3050B:1996),采用ICP-OES进行分析。

测试项目	<u>单位</u>	<u>MDL</u>	<u>003</u>	<u>004</u>	<u>005</u>
锑 (Sb)	mg/kg	10	ND	ND	ND
砷 (As)	mg/kg	10	ND	ND	ND

<u>测试项目</u>	<u>单位</u>	<u>MDL</u>	<u>008</u>
锑 (Sb)	mg/kg	10	ND
砷 (As)	mg/kg	10	ND



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多氯萘(PCNs)

测试方法: SGS内部方法(GZTC CHEM-TOP-032-01,参考EPA 8082A:2007 和 EPA 8270E:2017),采用

GC-ECD/GC-MS进行分析。

测试项目	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
1-一氯萘	mg/kg	5	ND	ND
2-一氯萘	mg/kg	5	ND	ND
1,4-二氯萘	mg/kg	5	ND	ND
1,5-二氯萘	mg/kg	5	ND	ND
1,2-二氯萘	mg/kg	5	ND	ND
1,8-二氯萘	mg/kg	5	ND	ND
1,2,3-三氯萘	mg/kg	5	ND	ND
1,2,3,4-四氯萘	mg/kg	5	ND	ND
1,2,3,4,6-五氯萘	mg/kg	5	ND	ND
八氯萘	mg/kg	5	ND	ND

六氯丁二烯

测试方法: SGS内部方法(GZTC CHEM-TOP-251-01,参考EPA方法3550C:2007),采用GC-MS进行分析。

测试项目	<u>CAS NO.</u>		<u>MDL</u>	<u>001</u>	<u>002</u>
六氯丁二烯	87-68-3	mg/kg	10	ND	ND

ODS

SGS内部方法(GZTC CHEM-TOP-201-01, 参考US EPA 方法5021A:2014), 采 测试方法:

用HS-GC-MS进行分析。

测试项目	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
CFC					
CFC-11	75-69-4	mg/kg	0.1	ND	ND
CFC-12	75-71-8	mg/kg	0.1	ND	ND
CFC-113	76-13-1	mg/kg	0.1	ND	ND
CFC-114	76-14-2	mg/kg	0.1	ND	ND
CFC-13	75-72-9	mg/kg	0.1	ND	ND



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测试报告	No. XMNML190163720	No. XMNML1901637203		19年11月2	7日 第8页,	共 34 页
测试项目	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	
CFC-111	354-56-3	mg/kg	0.1	ND	ND	
CFC-112	76-11-9	mg/kg	0.1	ND	ND	
CFC-112	76-12-0	mg/kg	0.1	ND	ND	
CFC-113	354-58-5	mg/kg	0.1	ND	ND	
CFC-114	374-07-2	mg/kg	0.1	ND	ND	
CFC-115	76-15-3	mg/kg	0.1	ND	ND	
CFC-211	422-78-6	mg/kg	0.1	ND	ND	
CFC-212	661-96-1	mg/kg	0.1	ND	ND	
CFC-213	1652-89-7	mg/kg	0.1	ND	ND	
CFC-214	677-68-9	mg/kg	0.1	ND	ND	
CFC-215	1599-41-3	mg/kg	0.1	ND	ND	
CFC-215	76-17-5	mg/kg	0.1	ND	ND	
CFC-216	661-97-2	mg/kg	0.1	ND	ND	
CFC-216	1652-80-8	mg/kg	0.1	ND	ND	
CFC-217	422-86-6	mg/kg	0.1	ND	ND	
HCFC						
HCFC-21	75-43-4	mg/kg	0.1	ND	ND	
HCFC-22	75-45-6	mg/kg	0.1	ND	ND	
HCFC-123	306-83-2	mg/kg	0.1	ND	ND	
HCFC-124	2837-89-0	mg/kg	0.1	ND	ND	
HCFC-141b	1717-00-6	mg/kg	0.1	ND	ND	
HCFC-142b	75-68-3	mg/kg	0.1	ND	ND	
HCFC-31	593-70-4	mg/kg	0.1	ND	ND	
HCFC-121	354-14-3	mg/kg	0.1	ND	ND	
HCFC-122	354-21-2	mg/kg	0.1	ND	ND	
HCFC-123a	354-23-4	mg/kg	0.1	ND	ND	
HCFC-124a	354-25-6	mg/kg	0.1	ND	ND	
HCFC-131	359-28-4	mg/kg	0.1	ND	ND	
HCFC-131a	811-95-0	mg/kg	0.1	ND	ND	
HCFC-132a	471-43-2	mg/kg	0.1	ND	ND	
HCFC-132b	1649-08-7	mg/kg	0.1	ND	ND	
HCFC-133a	75-88-7	mg/kg	0.1	ND	ND	
HCFC-221	422-26-4	mg/kg	0.1	ND	ND	
HCFC-222	422-30-0	mg/kg	0.1	ND	ND	
HCFC-223	422-52-6	mg/kg	0.1	ND	ND	
HCFC-224	422-54-8	mg/kg	0.1	ND	ND	
HCFC-225ca	422-56-0	mg/kg	0.1	ND	ND	
HCFC-225cb	507-55-1	mg/kg	0.1	ND	ND	
HCFC-226	431-87-8	mg/kg	0.1	ND	ND	
HCFC-231	421-94-3	mg/kg	0.1	ND	ND	





测试报告	No. XMNML190163720	No. XMNML1901637203		19年11月2	27日 第9页,共34页	ī
测试项目	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	
HCFC-232	460-89-9	mg/kg	0.1	ND	ND	
HCFC-233	7125-84-0	mg/kg	0.1	ND	ND	
HCFC-234	425-94-5	mg/kg	0.1	ND	ND	
HCFC-235	460-92-4	mg/kg	0.1	ND	ND	
HCFC-241	666-27-3	mg/kg	0.1	ND	ND	
HCFC-242	460-63-9	mg/kg	0.1	ND	ND	
HCFC-243	338-75-0	mg/kg	0.1	ND	ND	
HCFC-244	679-85-6	mg/kg	0.1	ND	ND	
HCFC-251	421-41-0	mg/kg	0.1	ND	ND	
HCFC-252	819-00-1	mg/kg	0.1	ND	ND	
HCFC-253	460-35-5	mg/kg	0.1	ND	ND	
HCFC-261	7799-56-6	mg/kg	0.1	ND	ND	
HCFC-261	420-97-3	mg/kg	0.1	ND	ND	
HCFC-271	430-55-7	mg/kg	0.1	ND	ND	
HCFC-262	102738-79-4	mg/kg	0.1	ND	ND	
HCFC-262	420-99-5	mg/kg	0.1	ND	ND	
HBFC						
CHF₂Br	1511-62-2	mg/kg	0.1	ND	ND	
CH₂FBr	373-52-4	mg/kg	0.1	ND	ND	
C₂HFBr₄	-	mg/kg	0.1	ND	ND	
C₂HF₂Br₃	377-34-9	mg/kg	0.1	ND	ND	
C₂HF₃Br₂	354-04-1	mg/kg	0.1	ND	ND	
C₂HF₄Br	-	mg/kg	0.1	ND	ND	
C₂H₂FBr₃	-	mg/kg	0.1	ND	ND	
$C_2H_2F_2Br_2$	75-82-1	mg/kg	0.1	ND	ND	
C₂H₂F₃Br	421-06-7	mg/kg	0.1	ND	ND	
C ₂ H ₃ FBr ₂	358-97-4	mg/kg	0.1	ND	ND	
C₂H₃F₂Br	359-07-9	mg/kg	0.1	ND	ND	
C₂H₄FBr	762-49-2	mg/kg	0.1	ND	ND	
C₃HFBr ₆	-	mg/kg	0.1	ND	ND	
C₃HF₂Br₅	-	mg/kg	0.1	ND	ND	
C₃HF₃Br₄	-	mg/kg	0.1	ND	ND	
C₃HF₄Br₃	-	mg/kg	0.1	ND	ND	
C₃HF₅Br₂	431-78-7	mg/kg	0.1	ND	ND	
C₃HF₅Br	2252-78-0	mg/kg	0.1	ND	ND	
C₃H₂FBr₅	-	mg/kg	0.1	ND	ND	
C ₃ H ₂ F ₂ Br ₄	-	mg/kg	0.1	ND	ND	
C₃H₂F₃Br₃	421-90-9	mg/kg	0.1	ND	ND	
C ₃ H ₂ F ₄ Br ₂	460-86-6	mg/kg	0.1	ND	ND	
C₃H₂F₅Br	32778-10-2	mg/kg	0.1	ND	ND	





测试报告	No. XMNML19016372	No. XMNML1901637203		2019年11月27日		第10页,共34页
测试项目	CAS NO.	<u>单位</u>	MDL	<u>001</u>	<u>002</u>	
C₃H₃FBr₄	-	mg/kg	0.1	ND	ND	
C ₃ H ₃ F ₂ Br ₃	-	mg/kg	0.1	ND	ND	
C ₃ H ₃ F ₃ Br ₂	431-21-0	mg/kg	0.1	ND	ND	
C₃H₃F₄Br	679-84-5	mg/kg	0.1	ND	ND	
C₃H₄FBr₃	-	mg/kg	0.1	ND	ND	
C ₃ H ₄ F ₂ Br ₂	460-25-3	mg/kg	0.1	ND	ND	
C ₃ H ₄ F ₃ Br	460-32-2	mg/kg	0.1	ND	ND	
C₃H₅FBr₂	453-00-9	mg/kg	0.1	ND	ND	
C₃H₅F₂Br	420-89-3	mg/kg	0.1	ND	ND	
C₃H₅FBr	-	mg/kg	0.1	ND	ND	
Halon						
Halon 1211	353-59-3	mg/kg	0.1	ND	ND	
Halon 1301	75-63-8	mg/kg	0.1	ND	ND	
Halon 2402	124-73-2	mg/kg	0.1	ND	ND	
Others						
二溴氟甲烷	1868-53-7	mg/kg	0.1	ND	ND	
一溴甲烷	74-83-9	mg/kg	0.1	ND	ND	
溴氯甲烷	74-97-5	mg/kg	0.1	ND	ND	
HFC						
HFC-23	75-46-7	mg/kg	0.1	ND	ND	
HFC-32	75-10-5	mg/kg	0.1	ND	ND	
HFC-41	593-53-3	mg/kg	0.1	ND	ND	
HFC-43-10mee	-	mg/kg	0.1	ND	ND	
HFC-125	354-33-6	mg/kg	0.1	ND	ND	
HFC-134	359-35-3	mg/kg	0.1	ND	ND	
HFC-134a	811-97-2	mg/kg	0.1	ND	ND	
HFC-152a	75-37-6	mg/kg	0.1	ND	ND	
HFC-143	420-46-2	mg/kg	0.1	ND	ND	
HFC-143a	430-66-0	mg/kg	0.1	ND	ND	
HFC-227ea	-	mg/kg	0.1	ND	ND	
HFC-236cb	-	mg/kg	0.1	ND	ND	
HFC-236ea	431-63-0	mg/kg	0.1	ND	ND	
HFC-236fa	690-39-1	mg/kg	0.1	ND	ND	
HFC-245ca	679-86-7	mg/kg	0.1	ND	ND	
HFC-245fa	-	mg/kg	0.1	ND	ND	
HFC-365mfc	-	mg/kg	0.1	ND	ND	
HFC-161	353-36-6	mg/kg	0.1	ND	ND	
HFC-152	-	mg/kg	0.1	ND	ND	
PFC						
全氟甲烷	75-73-0	mg/kg	0.1	ND	ND	





测试报告	No. XMNML19016	No. XMNML1901637203		019年11月]27日	第11页,共34页	
<u>测试项目</u>	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>		
全氟乙烷	76-16-4	mg/kg	0.1	ND	ND		
全氟丙烷	76-19-7	mg/kg	0.1	ND	ND		
全氟丁烷	355-25-9	mg/kg	0.1	ND	ND		
全氟戊烷	678-26-2	mg/kg	0.1	ND	ND		
全氟己烷	355-42-0	mg/kg	0.1	ND	ND		
全氟环丁烷	115-25-3	mg/kg	0.1	ND	ND		
CHC							
1,3-二氯丙烷	142-28-9	mg/kg	0.1	ND	ND		
2,2-二氯丙烷	594-20-7	mg/kg	0.1	ND	ND		
四氯化碳	56-23-5	mg/kg	0.1	ND	ND		
氯乙烷	75-00-3	mg/kg	0.1	ND	ND		
三氯甲烷	67-66-3	mg/kg	0.1	ND	ND		
一氯甲烷	74-87-3	mg/kg	0.1	ND	ND		
顺1,2-二氯乙烯	156-59-2	mg/kg	0.1	ND	ND		
顺1,3-二氯丙烯	10061-01-5	mg/kg	0.1	ND	ND		
六氯丁二烯	87-68-3	mg/kg	0.1	ND	ND		
二氯甲烷	75-09-2	mg/kg	0.1	ND	ND		
四氯乙烯	127-18-4	mg/kg	0.1	ND	ND		
反1,2-二氯乙烯	156-60-5	mg/kg	0.1	ND	ND		
反1,3-二氯丙烯	10061-02-6	mg/kg	0.1	ND	ND		
三氯乙烯	79-01-6	mg/kg	0.1	ND	ND		
1,1,1,2-四氯乙烷	630-20-6	mg/kg	0.1	ND	ND		
1,1,1-三氯乙烷	71-55-6	mg/kg	0.1	ND	ND		
1,1,2,2-四氯乙烷	79-34-5	mg/kg	0.1	ND	ND		
1,1,2- 三氯乙烷	79-00-5	mg/kg	0.1	ND	ND		
1,1- 二氯乙烷	75-34-3	mg/kg	0.1	ND	ND		
1,1-二氯乙烯	75-35-4	mg/kg	0.1	ND	ND		
1,1-二氯丙烯	563-58-6	mg/kg	0.1	ND	ND		
1,2,3-三氯丙烷	96-18-4	mg/kg	0.1	ND	ND		
1,2- 二氯乙烷	107-06-2	mg/kg	0.1	ND	ND		
1,2-二氯丙烷	78-87-5	mg/kg	0.1	ND	ND		
六氟化硫	2551-62-4	mg/kg	0.1	ND	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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测试报告 日期: 2019年11月27日 第12页,共34页 No. XMNML1901637203

测试项目 单位 MDL 001 002 富马酸二甲酯(DMF) 0.1 ND ND mg/kg

六溴环十二烷(HBCDD)

参考IEC 62321-6:2015, 用GC-MS分析。 测试方法:

测试项目 单位 MDL 001 002 六溴环十二烷(HBCDD) mg/kg 10 ND ND

多氯三联苯(PCTs)

SGS内部方法(GZTC CHEM-TOP-032-01,参考EPA 8082A:2007 和 EPA 8270E:2017),采用 测试方法:

GC-ECD/GC-MS进行分析。

<u>测试项目</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
Aroclor 5432	mg/kg	5	ND	ND
Aroclor 5442	mg/kg	5	ND	ND
Aroclor 5460	mg/kg	5	ND	ND

偶氮

参照ISO 14362-1:2017, 采用GC-MS/HPLC-DAD进行分析。 测试方法:

确定4-氨基偶氮苯(CAS No.:60 09 3) 参照ISO 14362-3:2017,采用GC MS/HPLC DAD进行分析。

测试项目	CAS NO.	<u>限值</u>	<u>单位</u>	<u>MDL</u>		<u>001</u>
4-氨基联苯	92-67-1	30	mg/kg	5	<i>方法A</i> ND	<i>方法B</i> ND
联苯胺	92-87-5	30	mg/kg	5	ND	ND
4- 氯邻甲苯	95-69-2	30	mg/kg	5	ND	ND



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测试报告	No. XMNML	19016372	03	日期: 20	日期: 2019年11月27日 第13页,共34		
<u>测试项目</u>	CAS NO.	限值	<u>单位</u>	<u>MDL</u>	<u>001</u>		
2-萘胺	91-59-8	30	mg/kg	<i>5</i>	7法A プ ND	方法B ND	
邻氨基二甲基偶氮苯	97-56-3	30	mg/kg	5	ND	ND	
2-氨基-4-硝基甲苯	99-55-8	30	mg/kg	5	ND	ND	
对氯苯胺	106-47-8	30	mg/kg	5	ND	ND	
2,4-二氨基苯甲醚	615-05-4	30	mg/kg	5	ND	ND	
4,4'-二氨基二苯甲烷	101-77-9	30	mg/kg	5	ND	ND	
3,3'-二氯联苯胺	91-94-1	30	mg/kg	5	ND	ND	
3,3'-二甲氧基联苯胺	119-90-4	30	mg/kg	5	ND	ND	
3,3'-二甲基联苯胺	119-93-7	30	mg/kg	5	ND	ND	
3,3'-二甲基-4,4'-二氨基二苯甲烷	838-88-0	30	mg/kg	5	ND	ND	
3-氨基对甲苯甲醚(p-克利酊)	120-71-8	30	mg/kg	5	ND	ND	
4,4'-次甲基-双-(2-氯苯胺)	101-14-4	30	mg/kg	5	ND	ND	
4,4'- 二氨基二苯醚	101-80-4	30	mg/kg	5	ND	ND	



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测试报告	No. XMNML1	9016372	03	日期: 20	19年11月27日	第14页,共34页
测试项目	CAS NO.	<u>限值</u>	<u>单位</u>	MDL	<u>00</u>	
4,4'-二氨基二苯硫醚	139-65-1	30	mg/kg	5	<i>方法A</i> ND	<i>方法B</i> ND
邻甲苯胺	95-53-4	30	mg/kg	5	ND	ND
2,4-二氨基甲苯	95-80-7	30	mg/kg	5	ND	ND
2,4,5-三甲苯胺	137-17-7	30	mg/kg	5	ND	ND
4-氨基偶氮苯	60-09-3	30	mg/kg	5	ND	ND
邻甲氧基苯胺	90-04-0	30	mg/kg	5	ND	ND
2,4- 二甲基苯胺	95-68-1	30	mg/kg	5	ND	ND
2,6-二甲基苯胺	87-62-7	30	mg/kg	5	ND	ND
评论					符合	符合
测试项目	CAS NO.	<u>限值</u>	单位	<u>MDL</u>	<u>00</u>	<u>12</u>
				Ī	方法A	方法B
4-氨基联苯	92-67-1	30	mg/kg	5	ND	ND
联苯胺	92-87-5	30	mg/kg	5	ND	ND



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测试报告	No. XMNML	.19016372	03	日期: 20	日期: 2019年11月27日 第15页,共34		
测试项目	CAS NO.	限值	单位	<u>MDL</u>	<u>002</u>		
4-氯邻甲苯	95-69-2	30	mg/kg	<i>5</i> 5	で法A プ ND	方法B ND	
2-萘胺	91-59-8	30	mg/kg	5	ND	ND	
邻氨基二甲基偶氮苯	97-56-3	30	mg/kg	5	ND	ND	
2-氨基-4-硝基甲苯	99-55-8	30	mg/kg	5	ND	ND	
对氯苯胺	106-47-8	30	mg/kg	5	ND	ND	
2,4- 二氨基苯甲醚	615-05-4	30	mg/kg	5	ND	ND	
4,4'-二氨基二苯甲烷	101-77-9	30	mg/kg	5	ND	ND	
3,3'-二氯联苯胺	91-94-1	30	mg/kg	5	ND	ND	
3,3'-二甲氧基联苯胺	119-90-4	30	mg/kg	5	ND	ND	
3,3'-二甲基联苯胺	119-93-7	30	mg/kg	5	ND	ND	
3,3'- 二甲基 -4,4'- 二氨基二苯甲烷	838-88-0	30	mg/kg	5	ND	ND	
3-氨基对甲苯甲醚(p-克利酊)	120-71-8	30	mg/kg	5	ND	ND	
4,4'-次甲基-双-(2-氯苯胺)	101-14-4	30	mg/kg	5	ND	ND	





测试报告	No. XMNML1	90163720	03	日期: 201	日期: 2019年11月27日 第16页,共3		
测试项目	CAS NO.	<u>限值</u>	<u>单位</u>	MDL		<u>02</u>	
4,4'-二氨基二苯醚	101-80-4	30	mg/kg	<i>5</i>	· <i>法A</i> ND	<i>方法B</i> ND	
4,4'-二氨基二苯硫醚	139-65-1	30	mg/kg	5	ND	ND	
邻甲苯胺	95-53-4	30	mg/kg	5	ND	ND	
2,4-二氨基甲苯	95-80-7	30	mg/kg	5	ND	ND	
2,4,5-三甲苯胺	137-17-7	30	mg/kg	5	ND	ND	
4-氨基偶氮苯	60-09-3	30	mg/kg	5	ND	ND	
邻甲氧基苯胺	90-04-0	30	mg/kg	5	ND	ND	
2,4- 二甲基苯胺	95-68-1	30	mg/kg	5	ND	ND	
2,6-二甲基苯胺	87-62-7	30	mg/kg	5	ND	ND	
评论					符合	符合	

备注:

- (1) 方法A表示直接还原法,直接 还原是指根据ISO 14362-1:2017条款10.2和相关条款提取和还原。 方法B表示脱色提取法,脱色提取是指根据ISO 14362-1:2017条款10.1和相关条款进行染料萃取和还原。
- (2) ISO 14362-1:2017 方法会使4-氨基偶氮苯(CAS No.:60 09 3) 在本实验条件下进一步裂解为非禁用的 胺: 苯胺和1,4-苯二胺, 因此, 采用ISO 14362-3:2017 方法验证4-氨基偶氮苯的存在。
- (3)最大允许极限值引用自1907/2006/EC Reach 附录XVII的修正指令——552/2009/EC第43条(前身为2002/61/EC)。
- (4) 4-氨基联苯(CAS No.:92-67-1), 2-萘胺(CAS No.:91-59-8), 2,4-二氨基苯甲醚(CAS



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No.:615-05-4) 有检出时,如果没有进一步的信息(如染料的化学结构)提供,并不能确认使用了禁用的

当样品中含有聚氨酯材料(如含PU泡沫、PU涂层和PU胶印)时,某些胺类,若4.4'-二氨基二苯甲 烷(MDA, CAS No.:101-77-9) 和 2.4-二氨基甲苯(TDA, CAS No.:95-80-7) 有检出,并不能确认其来自PU材 料而非禁用偶氮染料。

当样品中含有胶印时,若4,4'-二氨基二苯甲烷(MDA, CAS No.:101-77-9)有检出,需要注意该物质可能不 是来源于禁用的偶氮染料,而是来源于其它物料,如化学固色剂。

短链氯化石蜡(C10-C13) (SCCPs)

测试方法: SGS内部方法(GZTC CHEM-TOP-096-02. 参考US EPA方法 3550C:2007),用GC-NCI-MS/

GC-ECD分析。

<u>测试项目</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>
短链氯化石蜡(C10-C13) (SCCPs)	mg/kg	50	ND
<u>测试项目</u>	<u>单位</u>	<u>MDL</u>	<u>002</u>
短链氯化石蜡(C10-C13) (SCCPs)	mg/kg	50	ND

多氯联苯(PCBs)

测试方法: SGS内部方法(GZTC CHEM-TOP-032-01,参考EPA 8082A:2007 和 EPA 8270E:2017),采用 GC-ECD/GC-MS进行分析。

<u>测试项目</u>	<u>CAS NO.</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>
2,4,4'-三氯联苯 (PCB 28)	7012-37-5	mg/kg	0.5	ND
2,2',5,5'-四氯联苯 (PCB 52)	35693-99-3	mg/kg	0.5	ND
2,2',4,5,5'- 五氯联苯(PCB 101)	37680-73-2	mg/kg	0.5	ND
2,3',4,4',5-五氯联苯(PCB 118)	31508-00-6	mg/kg	0.5	ND
2,2',3,4,4',5'-六氯联苯 (PCB 138)	35065-28-2	mg/kg	0.5	ND
2,2',4,4',5,5'-六氯联苯 (PCB 153)	35065-27-1	mg/kg	0.5	ND
2,2',3,4,4',5,5'-七氯联苯 (PCB 180)	35065-29-3	mg/kg	0.5	ND
<u>测试项目</u>	CAS NO.	<u>单位</u>	<u>MDL</u>	002
2,4,4'-三氯联苯 (PCB 28)	7012-37-5	mg/kg	0.5	ND
2,4,4'-三氯联苯 (PCB 28) 2,2',5,5'-四氯联苯 (PCB 52)	' <u></u>	mg/kg mg/kg	0.5 0.5	ND ND
•	7012-37-5			
2,2',5,5'-四氯联苯 (PCB 52)	7012-37-5 35693-99-3	mg/kg	0.5	ND
2,2',5,5'-四氯联苯 (PCB 52) 2,2',4,5,5'- 五氯联苯(PCB 101)	7012-37-5 35693-99-3 37680-73-2	mg/kg mg/kg	0.5 0.5	ND ND
2,2',5,5'-四氯联苯 (PCB 52) 2,2',4,5,5'- 五氯联苯(PCB 101) 2,3',4,4',5-五氯联苯(PCB 118)	7012-37-5 35693-99-3 37680-73-2 31508-00-6	mg/kg mg/kg mg/kg	0.5 0.5 0.5	ND ND ND
2,2',5,5'-四氯联苯 (PCB 52) 2,2',4,5,5'- 五氯联苯(PCB 101) 2,3',4,4',5-五氯联苯(PCB 118) 2,2',3,4,4',5'-六氯联苯 (PCB 138)	7012-37-5 35693-99-3 37680-73-2 31508-00-6 35065-28-2	mg/kg mg/kg mg/kg mg/kg	0.5 0.5 0.5 0.5	ND ND ND ND



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有机锡化合物

测试方法: 参考ISO 17353: 2004, 用GC-MS分析。

<u>测试项目</u>	<u>单位</u>	MDL	001
二丁基锡(DBT)	mg/kg	0.02	ND
三丁基锡(TBT)	mg/kg	0.02	ND
二辛基锡(DOT)	mg/kg	0.02	ND
<u>测试项目</u>	<u>单位</u>	MDL	002
二丁基锡(DBT)	mg/kg	0.02	ND
三丁基锡(TBT)	mg/kg	0.02	ND
二辛基锡(DOT)	mg/kg	0.02	ND

全氟辛烷磺酰基化合物(PFOS)

测试方法: SGS内部方法(GZTC CHEM-TOP-062-04, 参考US EPA方法 3550C:2007),用 LC-MS分析。

<u>测试项目</u>	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>001</u>
全氟辛烷磺酸及其衍生物 (PFOS) [^]		mg/kg	10	ND
<u>测试项目</u>	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>002</u>
全氟辛烷磺酸及其衍生物 (PFOS)^		mg/kg	10	ND

备注:

(1)(EC) No 850/2004 补充指令 (EU) No 757/2010的要求:

第4章(1)(b)款适用于PFOS浓度等于或低于10mg/kg(0.001%重量比)的物质或配制品。

第4章(1)(b)款适用于PFOS浓度低于0.1%(重量比)的半成品,成品或者它们的部件,以含有PFOS的结构或特殊部件的局部结构计算,对于纺织品和其它涂层的材料,PFOS的量低于1µg/m2。

(2) ^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)。

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。

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<u>测试项目</u> 邻苯二甲酸二丁酯 (DBP)	<u>CAS NO.</u> 84-74-2	<u>单位</u> %	MDL 0.003	<u>001</u> ND	<i>002</i> ND	
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND	ND	
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND	ND	
邻苯二甲酸二异壬酯 (DINP)	28553-12-0 / 68515-48-0	%	0.010	ND	ND	
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND	ND	
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 / 68515-49-1	%	0.010	ND	ND	
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND	ND	
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND	ND	

备注:

- (1)DBP、BBP、DEHP、DIBP参考信息: 1907/2006/EC Reach 附录XVII的修正指 令——2018/2005/EU第51条的要求:
- i) 不允许DBP、BBP、DEHP、DIBP单一质量浓度或质量浓度总和等于或高于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单一质量浓度或质量浓度总和等于或高 于0.1%时,不得投放市场。另外,当玩具和儿童护理品中的可塑性物料含DIBP单一质量浓度 或DBP、BBP、DEHP、DIBP质量浓度总和等于或高于0.1%时,2020年7月7日后不得投放市场。
- iii) 当成品中的可塑性物料含DBP、BBP、DEHP、DIBP单一质量浓度或质量浓度总和等于或高 于0.1%时,2020年7月7日后不得投放市场。

详细信息请参见Regulation (EU) No 2018/2005

- (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 干0.1%时,不得投放市场。



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详细信息请参见Regulation (EC) No 552/2009

阻燃剂含量

测试方法: SGS内部方法(GZTC CHEM-TOP-149-04, 参考EPA 3550C:2007),采用GC-MS

和HPLC-DAD/MS进行分析。

<u>测试项目</u> 磷酸三(1,3-二氯-2-丙 基)酯(TDCPP)	<u>CAS NO.</u> 13674-87-8	<u>单位</u> mg/kg	<u>MDL</u> 5	<u>001</u> ND	<u>002</u> ND
磷酸三(2-氯乙基)酯(TCEP)	115-96-8	mg/kg	5	ND	ND
磷酸三(1-氯-2-丙基)酯(TCPP)	13674-84-5	mg/kg	5	ND	ND

备注:测试由SGS广州化学实验室操作。

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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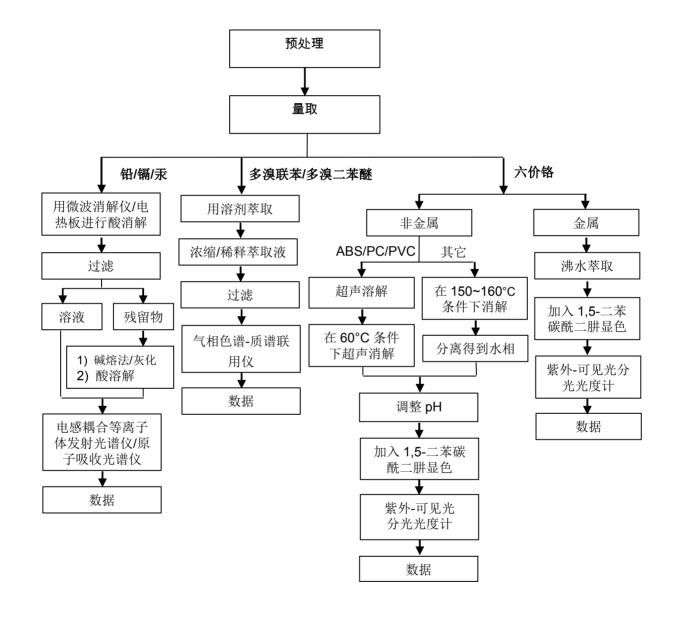
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附件

Pb/Cd/Hg/Cr6+/PBBs/PBDEs 测试流程图

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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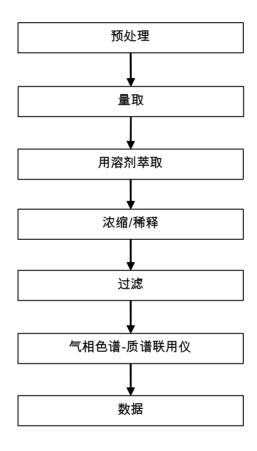


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附件

Phthalates 测试流程图



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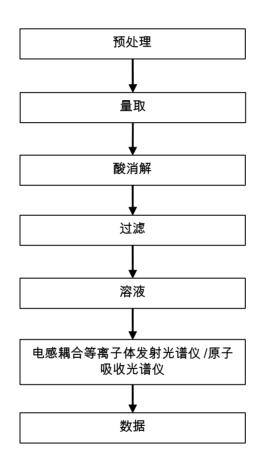
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附件

元素测试流程图

样品按照下述流程被完全消解。





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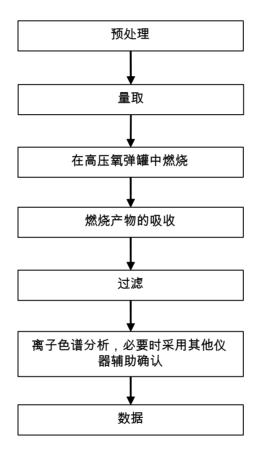


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附件

Halogen 测试流程图





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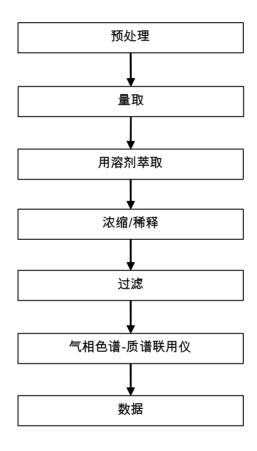


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附件

HBCDD 测试流程图





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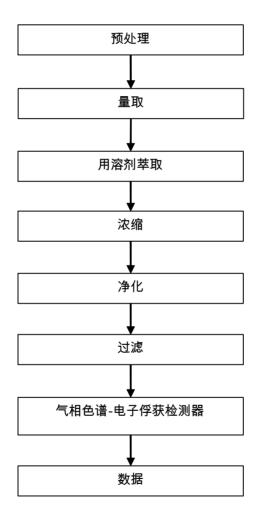


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附件

SCCP 测试流程图





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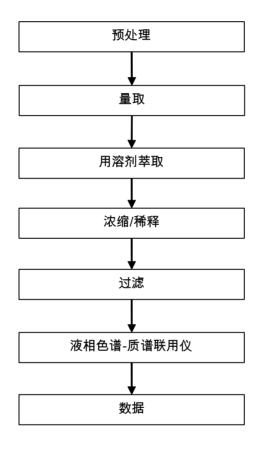


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附件

PFOS 测试流程图





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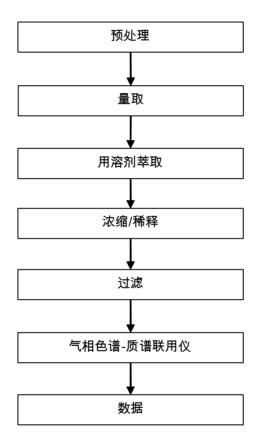


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附件

Dimethyl Fumarate 测试流程图





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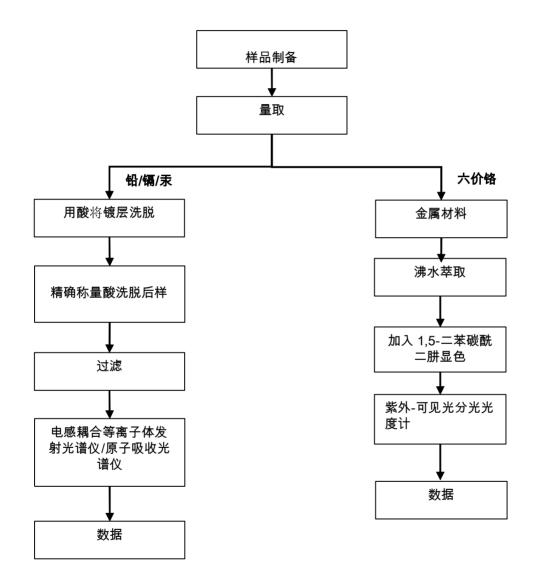


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镀层样品中铅/镉/汞/六价铬的测试流程图





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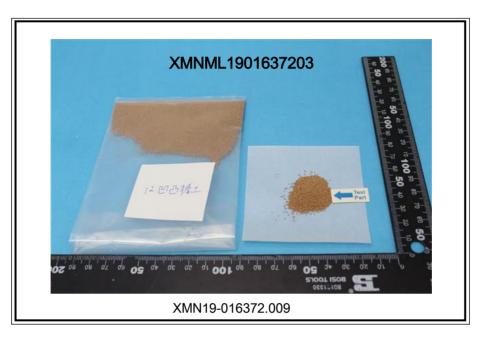
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