

检测报告

编号: CANEC2227563602

日期: 2023年01月16日 第1页,共26页

客户名称: 建滔积层板控股有限公司
客户地址: 香港新界沙田安耀街三号汇达大厦二十三楼

样品名称: KB-3151C
型号: KB-3151C
客户参考信息: KB-2150, KB-3151HS
以上样品及信息由客户提供。

SGS工作编号: CP22-067314 - GZ
样品接收日期: 2022年12月22日
检测周期: 2022年12月22日 - 2023年01月11日
检测要求: 根据客户要求检测
检测方法: 请参见下一页
检测结果: 请参见下一页
检测结果概要:

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
元素分析	见检测结果
二氯化钴	见检测结果
ODS	见检测结果
石棉	见检测结果
红磷	见检测结果
邻苯二甲酸酯	见检测结果
六溴环十二烷(HBCDD) 及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD)	见检测结果
有机锡	见检测结果
C ₁₀ ~C ₁₃ 氯代烃(短链氯化石蜡)(SCCPs)	见检测结果
AfPS GS 2019:01 PAK- 多环芳香烃	见检测结果
美国环保署有毒物质控制法 (TSCA) 第6 (h)节规定的持久性、生物累积性和毒性 (PBT) 化学物质	符合



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全氟和多氟烷基化合物 (PFASs)

见检测结果

通标标准技术服务有限公司广州分公司
授权签名

李嘉欣

Jessie Li 李嘉欣
批准签署人SGS-CSI Standards Technical Services Co., Ltd.
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检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	CAN22-275636.001	棕色单面覆铜板(取用无红色"KB"印字部分测试)

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

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+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.

检测项目	限值	单位	MDL	001
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	-	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)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
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



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检测项目	限值	单位	MDL	001
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。
- (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。

元素分析

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

检测项目	单位	MDL	001
砷 (As)	mg/kg	10	ND
铈 (Sb)	mg/kg	10	ND
铍(Be)	mg/kg	5	ND

二氯化钴

检测方法: 参考SGS内部方法(GZTC CHEM-TOP-099-02), 用IC和ICP-OES分析。

检测项目	单位	MDL	001
二氯化钴 (CoCl ₂)	mg/kg	100	ND

备注:

- (1) 二氯化钴的结果是由氯和钴含量换算得之。



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ODS

检测方法: SGS内部方法 (GZTC CHEM-TOP-201-01, 参考US EPA 方法5021A:2014), 采用HS-GC-MS进行分析。

检测项目	CAS NO.	单位	MDL	OD1
六氟化硫	2551-62-4	mg/kg	0.1	ND
CFC				
CFC-11	75-69-4	mg/kg	0.1	ND
CFC-12	75-71-8	mg/kg	0.1	ND
CFC-113	76-13-1	mg/kg	0.1	ND
CFC-114	76-14-2	mg/kg	0.1	ND
CFC-13	75-72-9	mg/kg	0.1	ND
CFC-111	354-56-3	mg/kg	0.1	ND
CFC-112	76-11-9	mg/kg	0.1	ND
CFC-112	76-12-0	mg/kg	0.1	ND
CFC-113	354-58-5	mg/kg	0.1	ND
CFC-114	374-07-2	mg/kg	0.1	ND
CFC-115	76-15-3	mg/kg	0.1	ND
CFC-211	422-78-6	mg/kg	0.1	ND
CFC-212	661-96-1	mg/kg	0.1	ND
CFC-213	1652-89-7	mg/kg	0.1	ND
CFC-214	677-68-9	mg/kg	0.1	ND
CFC-215	1599-41-3	mg/kg	0.1	ND
CFC-215	76-17-5	mg/kg	0.1	ND
CFC-216	661-97-2	mg/kg	0.1	ND
CFC-216	1652-80-8	mg/kg	0.1	ND
CFC-217	422-86-6	mg/kg	0.1	ND
HCFC				
HCFC-21	75-43-4	mg/kg	0.1	ND
HCFC-22	75-45-6	mg/kg	0.1	ND
HCFC-123	306-83-2	mg/kg	0.1	ND
HCFC-124	2837-89-0	mg/kg	0.1	ND
HCFC-141b	1717-00-6	mg/kg	0.1	ND
HCFC-142b	75-68-3	mg/kg	0.1	ND
HCFC-31	593-70-4	mg/kg	0.1	ND
HCFC-121	354-14-3	mg/kg	0.1	ND
HCFC-122	354-21-2	mg/kg	0.1	ND
HCFC-123a	354-23-4	mg/kg	0.1	ND
HCFC-124a	354-25-6	mg/kg	0.1	ND



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检测项目	CAS NO.	单位	MDL	001
HCFC-124a	354-25-6	mg/kg	0.1	ND
HCFC-131	359-28-4	mg/kg	0.1	ND
HCFC-131a	811-95-0	mg/kg	0.1	ND
HCFC-132a	471-43-2	mg/kg	0.1	ND
HCFC-132b	1649-08-7	mg/kg	0.1	ND
HCFC-133a	75-88-7	mg/kg	0.1	ND
HCFC-221	422-26-4	mg/kg	0.1	ND
HCFC-222	422-30-0	mg/kg	0.1	ND
HCFC-223	422-52-6	mg/kg	0.1	ND
HCFC-224	422-54-8	mg/kg	0.1	ND
HCFC-225ca	422-56-0	mg/kg	0.1	ND
HCFC-225cb	507-55-1	mg/kg	0.1	ND
HCFC-226	431-87-8	mg/kg	0.1	ND
HCFC-231	421-94-3	mg/kg	0.1	ND
HCFC-232	460-89-9	mg/kg	0.1	ND
HCFC-233	7125-84-0	mg/kg	0.1	ND
HCFC-234	425-94-5	mg/kg	0.1	ND
HCFC-235	460-92-4	mg/kg	0.1	ND
HCFC-241	666-27-3	mg/kg	0.1	ND
HCFC-242	460-63-9	mg/kg	0.1	ND
HCFC-243	338-75-0	mg/kg	0.1	ND
HCFC-244	679-85-6	mg/kg	0.1	ND
HCFC-251	421-41-0	mg/kg	0.1	ND
HCFC-252	819-00-1	mg/kg	0.1	ND
HCFC-253	460-35-5	mg/kg	0.1	ND
HCFC-261	7799-56-6	mg/kg	0.1	ND
HCFC-261	420-97-3	mg/kg	0.1	ND
HCFC-271	430-55-7	mg/kg	0.1	ND
HCFC-262	102738-79-4	mg/kg	0.1	ND
HCFC-262	420-99-5	mg/kg	0.1	ND
Halon				
Halon 1211	353-59-3	mg/kg	0.1	ND
Halon 1301	75-63-8	mg/kg	0.1	ND
Halon 2402	124-73-2	mg/kg	0.1	ND
HBFC				
CHF ₂ Br	1511-62-2	mg/kg	0.1	ND
CH ₂ FBr	373-52-4	mg/kg	0.1	ND
C ₂ HFBr ₄	-	mg/kg	0.1	ND
C ₂ HF ₂ Br ₃	377-34-9	mg/kg	0.1	ND
C ₂ HF ₃ Br ₂	354-04-1	mg/kg	0.1	ND



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C ₂ H ₄ Br	-	mg/kg	0.1	ND
C ₂ H ₂ FBr ₃	-	mg/kg	0.1	ND
C ₂ H ₂ F ₂ Br ₂	75-82-1	mg/kg	0.1	ND
C ₂ H ₂ F ₃ Br	421-06-7	mg/kg	0.1	ND
C ₂ H ₃ FBr ₂	358-97-4	mg/kg	0.1	ND
C ₂ H ₃ F ₂ Br	359-07-9	mg/kg	0.1	ND
C ₂ H ₄ FBr	762-49-2	mg/kg	0.1	ND
C ₃ H ₂ Br ₆	-	mg/kg	0.1	ND
C ₃ H ₂ Br ₅	-	mg/kg	0.1	ND
C ₃ H ₃ Br ₄	-	mg/kg	0.1	ND
C ₃ H ₄ Br ₃	-	mg/kg	0.1	ND
C ₃ H ₅ Br ₂	431-78-7	mg/kg	0.1	ND
C ₃ H ₆ Br	2252-78-0	mg/kg	0.1	ND
C ₃ H ₂ FBr ₅	-	mg/kg	0.1	ND
C ₃ H ₂ F ₂ Br ₄	-	mg/kg	0.1	ND
C ₃ H ₂ F ₃ Br ₃	421-90-9	mg/kg	0.1	ND
C ₃ H ₂ F ₄ Br ₂	460-86-6	mg/kg	0.1	ND
C ₃ H ₂ F ₅ Br	32778-10-2	mg/kg	0.1	ND
C ₃ H ₃ FBr ₄	-	mg/kg	0.1	ND
C ₃ H ₃ F ₂ Br ₃	-	mg/kg	0.1	ND
C ₃ H ₃ F ₃ Br ₂	431-21-0	mg/kg	0.1	ND
C ₃ H ₃ F ₄ Br	679-84-5	mg/kg	0.1	ND
C ₃ H ₄ FBr ₃	-	mg/kg	0.1	ND
C ₃ H ₄ F ₂ Br ₂	460-25-3	mg/kg	0.1	ND
C ₃ H ₄ F ₃ Br	460-32-2	mg/kg	0.1	ND
C ₃ H ₅ FBr ₂	453-00-9	mg/kg	0.1	ND
C ₃ H ₅ F ₂ Br	420-89-3	mg/kg	0.1	ND
C ₃ H ₆ FBr	-	mg/kg	0.1	ND
Others				
二溴氟甲烷	1868-53-7	mg/kg	0.1	ND
一溴甲烷	74-83-9	mg/kg	0.1	ND
溴氯甲烷	74-97-5	mg/kg	0.1	ND
HFC				
HFC-23	75-46-7	mg/kg	0.1	ND
HFC-32	75-10-5	mg/kg	0.1	ND
HFC-41	593-53-3	mg/kg	0.1	ND
HFC-43-10mee	-	mg/kg	0.1	ND
HFC-125	354-33-6	mg/kg	0.1	ND
HFC-134	359-35-3	mg/kg	0.1	ND
HFC-134a	811-97-2	mg/kg	0.1	ND



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检测报告

编号: CANEC2227563602

日期: 2023年01月16日 第8页,共26页

检测项目	CAS NO.	单位	MDL	001
HFC-152a	75-37-6	mg/kg	0.1	ND
HFC-143	430-66-0	mg/kg	0.1	ND
HFC-143a	420-46-2	mg/kg	0.1	ND
HFC-227ea	-	mg/kg	0.1	ND
HFC-236cb	-	mg/kg	0.1	ND
HFC-236ea	431-63-0	mg/kg	0.1	ND
HFC-236fa	690-39-1	mg/kg	0.1	ND
HFC-245ca	679-86-7	mg/kg	0.1	ND
HFC-245fa	-	mg/kg	0.1	ND
HFC-365mfc	-	mg/kg	0.1	ND
PFC				
全氟甲烷	75-73-0	mg/kg	0.1	ND
全氟乙烷	76-16-4	mg/kg	0.1	ND
全氟丙烷	76-19-7	mg/kg	0.1	ND
全氟丁烷	355-25-9	mg/kg	0.1	ND
全氟戊烷	678-26-2	mg/kg	0.1	ND
全氟己烷	355-42-0	mg/kg	0.1	ND
全氟环丁烷	115-25-3	mg/kg	0.1	ND
CHC				
1,3-二氯丙烷	142-28-9	mg/kg	0.1	ND
2,2-二氯丙烷	594-20-7	mg/kg	0.1	ND
四氯化碳	56-23-5	mg/kg	0.1	ND
氯乙烷	75-00-3	mg/kg	0.1	ND
三氯甲烷	67-66-3	mg/kg	0.1	ND
一氯甲烷	74-87-3	mg/kg	0.1	ND
顺1,2-二氯乙烯	156-59-2	mg/kg	0.1	ND
顺1,3-二氯丙烯	10061-01-5	mg/kg	0.1	ND
六氯丁二烯	87-68-3	mg/kg	0.1	ND
二氯甲烷	75-09-2	mg/kg	0.1	ND
四氯乙烯	127-18-4	mg/kg	0.1	ND
反1,2-二氯乙烯	156-60-5	mg/kg	0.1	ND
反1,3-二氯丙烯	10061-02-6	mg/kg	0.1	ND
三氯乙烯	79-01-6	mg/kg	0.1	ND
1,1,1,2-四氯乙烷	630-20-6	mg/kg	0.1	ND
1,1,1-三氯乙烷	71-55-6	mg/kg	0.1	ND
1,1,2,2-四氯乙烷	79-34-5	mg/kg	0.1	ND
1,1,2-三氯乙烷	79-00-5	mg/kg	0.1	ND
1,1-二氯乙烷	75-34-3	mg/kg	0.1	ND
1,1-二氯乙烯	75-35-4	mg/kg	0.1	ND
1,1-二氯丙烯	563-58-6	mg/kg	0.1	ND



检测报告

编号: CANEC2227563602

日期: 2023年01月16日 第9页,共26页

检测项目	CAS NO.	单位	MDL	001
1,2,3-三氯丙烷	96-18-4	mg/kg	0.1	ND
1,2-二氯乙烷	107-06-2	mg/kg	0.1	ND
1,2-二氯丙烷	78-87-5	mg/kg	0.1	ND

石棉

检测方法: 参考NIOSH 9000:2015 / NIOSH 9002:1994, 采用XRD / PLM进行分析。

检测项目	CAS NO.	单位	MDL	001
温石棉	12001-29-5/13220	% (m/m)	0.1	阴性
铁石棉	7-32-0			
	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。

红磷

检测方法: SGS内部方法(SGS-CCL-TOP-215-01), 采用PY-GC/MS / ICP-OES / GC-MS 进行分析。

检测项目	单位	MDL	001
红磷	mg/kg	500	ND

邻苯二甲酸酯

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

检测项目	CAS NO.	单位	MDL	001
邻苯二甲酸二丁酯 (DBP)	84-74-2	%(w/w)	0.003	ND



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检测报告

编号: CANEC2227563602

日期: 2023年01月16日 第10页,共26页

检测项目	CAS NO.	单位	MDL	001
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
邻苯二甲酸二丙酯 (DPrP)	131-16-8	%(w/w)	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%(w/w)	0.003	ND
邻苯二甲酸二戊酯 (DPENP/ DnPP)	131-18-0	%(w/w)	0.003	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%(w/w)	0.003	ND
邻苯二甲酸二环己酯 (DCHP)	84-61-7	%(w/w)	0.003	ND
邻苯二甲酸二苯酯 (DPhP)	84-62-8	%(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(2-甲氧基乙基)酯 (DMEP)	117-82-8	%(w/w)	0.003	ND
邻苯二甲酸二烯丙酯 (DAP)	131-17-9	%(w/w)	0.003	ND
邻苯二甲酸癸基辛基酯 (nDnOP)	119-07-3	%(w/w)	0.003	ND
邻苯二甲酸二癸酯 (DnDP)	84-77-5	%(w/w)	0.003	ND
邻苯二甲酸二异戊酯 (DIPP)	605-50-5	%(w/w)	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPIPP)	776297-69-9	%(w/w)	0.003	ND
邻苯二甲酸二(C6-8支链)烷基酯(富C7) (DIHP)	71888-89-6	%(w/w)	0.010	ND
邻苯二甲酸二(C7-11支链与直链)烷基(醇)酯 (DHNUP)	68515-42-4	%(w/w)	0.010	ND
己二酸二(2-乙基己基)酯(DEHA)	103-23-1	%(w/w)	0.003	ND
邻苯二甲酸二(4-甲基-2-戊基)酯 (BMPP)	146-50-9	%(w/w)	0.003	ND
邻苯二甲酸二(2-乙氧基)乙酯 (DEEP)	605-54-9	%(w/w)	0.003	ND
邻苯二甲酸二(2-丁氧基)乙酯 (DBEP)	117-83-9	%(w/w)	0.003	ND
邻苯二甲酸双十一烷酯 (DUDP)	3648-20-2	%(w/w)	0.003	ND
己二酸二异壬酯(DINA)	33703-08-1	%(w/w)	0.010	ND
邻苯二甲酸双十三烷基酯 (DTDP)	119-06-2	%(w/w)	0.003	ND
偏苯三酸三(2-乙基己基)酯 (TOTM)	3319-31-1	%(w/w)	0.003	ND
对苯二甲酸二(2-乙基己基)酯 (DOTP)	6422-86-2	%(w/w)	0.003	ND
邻苯二甲酸二庚酯 (DnHpP)	3648-21-3	%(w/w)	0.003	ND
乙酰柠檬酸三丁酯 (Citroflex, ATBC)	77-90-7	%(w/w)	0.010	ND
邻苯二甲酸二(支链与直链)戊基酯 (DPP)	84777-06-0	%(w/w)	0.010	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%(w/w)	0.010	ND



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Guangzhou Branch

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检测报告

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日期: 2023年01月16日 第11页,共26页

检测项目

邻苯二甲酸二(2-丙基庚)酯(DPHpP)

CAS NO.

53306-54-0

单位

%(w/w)

MDL

0.010

001

ND

备注:

(1) DBP、BBP、DEHP、DIBP参考信息: 欧盟决议(EC) No 1907/2006 REACH 附录XVII及其修正法案(EU) 2018/2005 第51条:

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) 2018/2005

(2) DINP、DNOP、DIDP参考信息: 欧盟决议(EC) No 1907/2006 REACH 附录XVII及修正法案(EU) 2015/326 第52条:

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 (EU) 2015/326

六溴环十二烷(HBCDD) 及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD)

检测方法: 参考IEC 62321-9:2021, 采用GC-MS进行分析。

检测项目

六溴环十二烷(HBCDD) 及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD)

CAS NO.

25637-99-4,
3194-55-6,
134237-50-6,
134237-51-7,
134237-52-8

单位

mg/kg

MDL

20

001

ND

有机锡

检测方法: SGS内部方法 (GZTC CHEM-TOP-031, 参考ISO 17353:2004), 采用GC-MS进行分析。

检测项目

三丁基锡(TBT)
三苯基锡(TPhT)
三环己基锡(TCyT)
三辛基锡(TOT)
三丙基锡(TPT)

单位

mg/kg
mg/kg
mg/kg
mg/kg
mg/kg

MDL

0.02
0.02
0.02
0.02
0.02

001

ND
ND
ND
ND
ND



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检测报告

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检测项目	单位	MDL	001
二丁基锡(DBT)	mg/kg	0.02	ND
二辛基锡(DOT)	mg/kg	0.02	ND
二甲基锡 (DMT)	mg/kg	0.02	ND

C₁₀~C₁₃ 氯代烃(短链氯化石蜡)(SCCPs)

检测方法: 参考ISO 22818:2021, 采用GC-NCI-MS进行分析。

检测项目	CAS NO.	单位	MDL	001
C ₁₀ ~C ₁₃ 氯代烃(短链氯化石蜡)(SCCPs)	85535-84-8和其 它	mg/kg	50	ND

AfPS GS 2019:01 PAK-多环芳香烃

检测方法: 参考AfPS GS 2019:01 PAK 检测, 采用 GC-MS进行分析。

检测项目	CAS NO.	单位	MDL	001
萘 (NAP)	91-20-3	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
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
蒽 (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)蒽) (BPE)	191-24-2	mg/kg	0.1	ND
4项多环芳香烃总和(菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT))	-	mg/kg	-	ND
15项多环芳香烃总和	-	mg/kg	-	ND

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检测报告

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AfPS (德国产品安全委员会):多环芳香烃的要求

参数 (mg/kg)	1 类	2 类		3 类	
	设计意图为放入口中的材料,或与皮肤长期接触(超过30秒)的材料用于 -2009/48/EC 定义的玩具,或 -供3岁以下儿童 ^{a,b} 使用。	不属于第1类,设计意图或可预见 ^d 与皮肤长期接触(超过30秒)或短期重复接触 ^c 的材料		不属于第1和2类,设计意图或可预见与皮肤短期接触(不超过30秒)材料	
		a.供儿童使用的产品	b.其他产品	a.供儿童使用的产品	b.其他产品
苯并(a)芘 (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)芘 (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(a)蒽 (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(b)荧蒽 (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(j)荧蒽 (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(k)荧蒽 (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
蒽 (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并(a,h)蒽 (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(g,h,i)芘(二苯嵌苯) (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚并(1,2,3-c,d)芘 (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)	< 1 (总和)	< 5 (总和)	< 10 (总和)	< 20 (总和)	< 50 (总和)
萘 (NAP)	< 1	< 2		< 10	
15 PAH之和	<1	< 5	< 10	< 20	< 50

注释:

^a 儿童是指法定年龄未满 14 周岁的人。^b 供儿童使用包括儿童的主动接触或被动接触。^c “短期重复接触”的定义摘自 REACH 附录 XVII 第 50 条修正案 (EC) No. 1272/2013)。^d 根据德国产品安全法 (ProdSG) (第一章第 2 条第 28 款) 的定义,“可预见的使用”是指将产品投放市场的人无意但可以合理预见的方式使用产品。

备注:

德国产品安全委员会 (AfPS) 于 2020 年 4 月 10 日发布了关于多环芳香烃 (PAHs) 的新文件 (AfPS GS 2019:01 PAK), 该文件将于 2020 年 7 月 1 日起用于 GS-MARK 认证。

美国环保署有毒物质控制法 (TSCA) 第 6 (h) 节规定的持久性、生物累积性和毒性 (PBT) 化学物质

检测方法: SGS内部方法(SGS-CCL-TOP-149-07, 参考US EPA 方法 3550C:2007), 采用GC-MS进行分析。

SGS-CSI Standards Technical Services Co., Ltd.
Guangzhou Branch (China) SGS Chemical Laboratory

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检测报告

编号: CANEC2227563602

日期: 2023年01月16日 第14页,共26页

检测项目	CAS NO.	限值	单位	MDL	001
十溴二苯醚 (Deca-BDE)Δ ¹	1163-19-5	★	mg/kg	5	ND
异丙基化磷酸三苯酯 (PIP 3:1)Δ ²	68937-41-7	★	mg/kg	5	ND
2,4,6-三叔丁基苯酚 (2,4,6-TTBP)Δ ³	732-26-3	3000	mg/kg	5	ND
六氯丁二烯 (HCBd)	87-68-3	★	mg/kg	5	ND
五氯苯硫酚 (PCTP)	133-49-3	10000	mg/kg	5	ND
结论					符合

备注:

1. “★”= 禁止使用
2. 法规信息请参见下链接
<https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/persistent-bioaccumulative-and-toxic-pbt-chemicals-under>
3. Δ¹: 若送测样品来自于产品或物品含有十溴二苯醚的产品或物品的回收塑料, 则可豁免;
4. Δ²: 提交的样品有下列情形之一的, 不在法规的管控范围内:
 - 用于航空或军事用途的液压油;
 - 润滑剂和润滑脂;
 - 汽车和航空航天车辆的新零件和替换零件;
 - 生产氰基丙烯酸酯胶粘剂的中间体;
 - 机车和船用专用发动机空气滤清器;
 - 来自于含有PIP (3:1) 的产品或物品的回收塑料;
 - 用含有PIP (3:1) 回收产品或物品的塑料制成的产品或物品
5. Δ³: 提交的样品如果不是机油或润滑油, 则不在法规的管控范围内;

全氟和多氟烷基化合物 (PFASs)

检测方法: SGS内部方法 (SGS-CCL-TOP-062-04, SGS-CCL-TOP-062-06 和SGS-CCL-TOP-062-08).

检测项目	CAS NO.	单位	MDL	001
全氟丁酸 (PFBA)	375-22-4	mg/kg	0.010	ND
全氟戊酸 (PFPeA)	2706-90-3	mg/kg	0.010	ND
全氟己酸 (PFHxA)	307-24-4	mg/kg	0.010	ND
全氟己酸铵 (PFHxA-NH ₄) *	21615-47-4	mg/kg	0.010	ND
7H-十二氟庚酸 (HPFHpA)	1546-95-8	mg/kg	0.010	ND
全氟丁磺酸 (PFBS)	375-73-5	mg/kg	0.010	ND
全氟丁基磺酸钾 (PFBS-K)*	29420-49-3	mg/kg	0.010	ND
九氟丁烷磺酸水合物 (PFBS-H ₂ O) *	59933-66-3	mg/kg	0.010	ND
N,N,N'-三乙基乙胺 1,1,2,2,3,3,4,4,4- 九氟丁烷-1-磺酸盐 *	25628-08-4	mg/kg	0.010	ND
1,1,2,2,3,3,4,4,4- 九氟-1-丁烷磺酰氟 *	375-72-4	mg/kg	0.010	ND
全氟庚酸 (PFHpA)	375-85-9	mg/kg	0.010	ND
1H,1H,2H,2H-全氟辛磺酸 (6:2 FTS)	27619-97-2	mg/kg	0.010	ND



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检测报告

编号: CANEC2227563602

日期: 2023年01月16日 第15页,共26页

检测项目	CAS NO.	单位	MDL	001
1H,1H,2H,2H-全氟辛酸 (6:2 FTS)	27619-97-2	mg/kg	0.010	ND
全氟辛酸 (PFOA)	335-67-1	mg/kg	0.010	ND
全氟辛酸铵 (APFO)*	3825-26-1	mg/kg	0.010	ND
全氟辛酸钠 (PFOA-Na)*	335-95-5	mg/kg	0.010	ND
全氟辛酸钾 (PFOA-K)*	2395-00-8	mg/kg	0.010	ND
全氟辛酸银 (PFOA-Ag)*	335-93-3	mg/kg	0.010	ND
全氟辛氟 (PFOA-F)*	335-66-0	mg/kg	0.010	ND
2H,2H-全氟癸酸(H2PFDA/8:2 FTCA)	27854-31-5	mg/kg	0.010	ND
四丁基磷2H,2H-全氟癸酸酯 (H2PFDA-P(C ₄ H ₉) ₄)	882489-14-7	mg/kg	0.010	ND
全氟己基磺酸 (PFHxS)	355-46-4	mg/kg	0.010	ND
全氟己基磺酸钠 (PFHxS-Na)*	82382-12-5	mg/kg	0.010	ND
全氟己基磺酸钾 (PFHxS-K)*	3871-99-6	mg/kg	0.010	ND
全氟己基磺酸铵 (PFHxS-NH ₄)*	68259-08-5	mg/kg	0.010	ND
全氟己基磺酸锂 (PFHxS-Li)*	55120-77-9	mg/kg	0.010	ND
全氟己基磺酸锌 (PFHxS-Zn)*	70136-72-0	mg/kg	0.010	ND
全氟壬酸 (PFNA)	375-95-1	mg/kg	0.010	ND
全氟壬酸钠 (PFNA-Na)*	21049-39-8	mg/kg	0.010	ND
全氟壬酸铵 (APFN)*	4149-60-4	mg/kg	0.010	ND
全氟-3,7-二甲基辛酸 (PF-3,7-DMOA)	172155-07-6	mg/kg	0.010	ND
全氟庚基磺酸 (PFHpS)	375-92-8	mg/kg	0.010	ND
全氟庚基磺酸钠 (PFHpS-Na)*	68555-66-8	mg/kg	0.010	ND
全氟庚基磺酸钾 (PFHpS-K)*	60270-55-5	mg/kg	0.010	ND
全氟癸酸 (PFDA)	335-76-2	mg/kg	0.010	ND
全氟癸酸钠 (PFDA-Na)*	3830-45-3	mg/kg	0.010	ND
全氟癸酸铵 (APFDA)*	3108-42-7	mg/kg	0.010	ND
2H,2H,3H,3H-全氟癸酸(H4PFUnDA/ 8:3 FTCA)	34598-33-9	mg/kg	0.010	ND
全氟辛烷磺酸 (PFOS)	1763-23-1	mg/kg	0.010	ND
全氟辛基磺酰胺 (PFOSA)	754-91-6	mg/kg	0.010	ND
N-甲基全氟辛烷磺酰胺 (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-乙基全氟辛烷磺酰胺 (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-甲基全氟辛基磺酰胺)乙醇 (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-乙基全氟辛基磺酰胺)乙醇 (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
全氟辛基磺酰氟 (POSF)*	307-35-7	mg/kg	0.010	ND
全氟辛基磺酸钾 (PFOS-K)*	2795-39-3	mg/kg	0.010	ND
全氟辛基磺酸铵 (PFOS-NH ₄)*	29081-56-9	mg/kg	0.010	ND
全氟辛基磺酸二癸二甲基铵 (PFOS-DDA)*	251099-16-8	mg/kg	0.010	ND



检测报告

编号: CANEC2227563602

日期: 2023年01月16日 第16页,共26页

检测项目	CAS NO.	单位	MDL	001
全氟辛基磺酸二乙醇铵 (PFOS-NH(OH) ₂)*	70225-14-8	mg/kg	0.010	ND
全氟辛基磺酸锂 (PFOS-Li)*	29457-72-5	mg/kg	0.010	ND
全氟辛基磺酸四乙基铵 (PFOS-N(C ₂ H ₅) ₄)*	56773-42-3	mg/kg	0.010	ND
全氟辛基磺酸钠 (PFOS-Na) *	4021-47-0	mg/kg	0.010	ND
全氟辛基磺酸镁 (PFOS-Mg) *	91036-71-4	mg/kg	0.010	ND
全氟十一烷酸(PFUnDA)	2058-94-8	mg/kg	0.010	ND
全氟十二烷酸(PFDoDA)	307-55-1	mg/kg	0.010	ND
全氟十二烷铵盐 (PFDoDA-NH ₄) *	3793-74-6	mg/kg	0.010	ND
全氟癸烷磺酸 (PFDS)	335-77-3 / 126105-34-8	mg/kg	0.010	ND
全氟癸烷磺酸钠 (PFDS-Na)*	2806-15-7	mg/kg	0.010	ND
全氟癸烷磺酸钾 (PFDS-K)*	2806-16-8	mg/kg	0.010	ND
全氟癸基磺酸铵 (PFDS-NH ₄)*	67906-42-7	mg/kg	0.010	ND
全氟十三烷酸(PFTnDA)	72629-94-8	mg/kg	0.010	ND
全氟十四烷酸(PFTDA)	376-06-7	mg/kg	0.010	ND
1,1,2,2,3,3,4,4,4- 九氟-N-(2-羟乙基)-N-甲基-1-丁磺酰胺	34454-97-2	mg/kg	0.010	ND
2,3,3,3-四氟-2-(七氟丙氧基)丙酸	13252-13-6	mg/kg	0.010	ND
2,3,3,3-四氟-2-(七氟丙氧基)丙酸铵 *	62037-80-3	mg/kg	0.010	ND
2,3,3,3-四氟-2-(七氟丙氧基)丙酸钾 *	67118-55-2	mg/kg	0.010	ND
2,3,3,3-四氟-2-(七氟丙氧基)丙酰氟	2062-98-8	mg/kg	0.010	ND
N-甲基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-MeFOSAA)	2355-31-9	mg/kg	0.010	ND
N-乙基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-EtFOSAA)	2991-50-6	mg/kg	0.010	ND
双(2-(全氟乙基))磷酸 (8:2diPAP)	678-41-1	mg/kg	0.010	ND
全氟正十六酸 (PFHxDA)	67905-19-5	mg/kg	0.010	ND
全氟正十八酸 (PFODA)	16517-11-6	mg/kg	0.010	ND
1H,1H,2H,2H-全氟癸烷磺酸 (8:2 FTS)	39108-34-4	mg/kg	0.1	ND
N-(全氟-1-辛烷磺酰基)甘氨酸	2806-24-8	mg/kg	0.010	ND
全氟壬烷磺酸 (PFNS)	68259-12-1	mg/kg	0.010	ND
全氟-1-壬烷磺酸钠 (PFNS-Na) *	98789-57-2	mg/kg	0.010	ND
全氟十二烷磺酸 (PFDoDS)	79780-39-5	mg/kg	0.010	ND
全氟-1-十二烷磺酸钠 (PFDoDS-Na) *	1260224-54-1	mg/kg	0.010	ND
1H,1H,2H,2H-全氟己烷磺酸 (4:2 FTS)	757124-72-4	mg/kg	0.010	ND
全氟十五烷酸(PFPeDA)	141074-63-7	mg/kg	0.010	ND
全氟十七烷酸(PFHpDA)	57475-95-3	mg/kg	0.010	ND
全氟十九烷酸(PFNDA)	133921-38-7	mg/kg	0.010	ND
全氟二十烷酸(PFECA)	68310-12-3	mg/kg	0.010	ND



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检测报告

编号: CANEC2227563602

日期: 2023年01月16日 第17页,共26页

检测项目	CAS NO.	单位	MDL	001
全氟辛酸甲酯 (Me-PFOA)	376-27-2	mg/kg	0.1	ND
全氟辛酸乙酯 (Et-PFOA)	3108-24-5	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH)	678-39-7	mg/kg	0.1	ND
1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2 FTA)	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-甲基丙烯酸全氟癸酯 (8:2 FTMA)	1996-88-9	mg/kg	0.1	ND
全氟辛基碘烷 (PFOI)	507-63-1	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-己醇 (4:2 FTOH)	2043-47-2	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-辛醇 (6:2 FTOH)	647-42-7	mg/kg	0.1	ND
1H,1H,2H,2H-全氟辛基丙烯酸酯 (6:2 FTA)	17527-29-6	mg/kg	0.1	ND
1H,1H,2H,2H-全氟十二烷基丙烯酸酯 (10:2 FTA)	17741-60-5	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-十二烷醇 (10:2 FTOH)	865-86-1	mg/kg	0.1	ND
1-碘-1H,1H,2H,2H-全氟癸烷 (8:2 FTI)	2043-53-0	mg/kg	0.1	ND
1H,1H,2H,2H-甲基丙烯酸全氟辛酯 (6:2 FTMA)	2144-53-8	mg/kg	0.1	ND
1H,1H,2H,2H-全氟癸基三乙氧基硅烷 (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	mg/kg	0.1	ND
1H,1H,2H,2H-甲基丙烯酸全氟十二烷基酯 (10:2 FTMA)	2144-54-9	mg/kg	0.1	ND
全氟辛基乙烯	21652-58-4	mg/kg	0.1	ND
备注:				

* 检测结果是由选定的标记物的结果并基于最坏的情况计算得出。

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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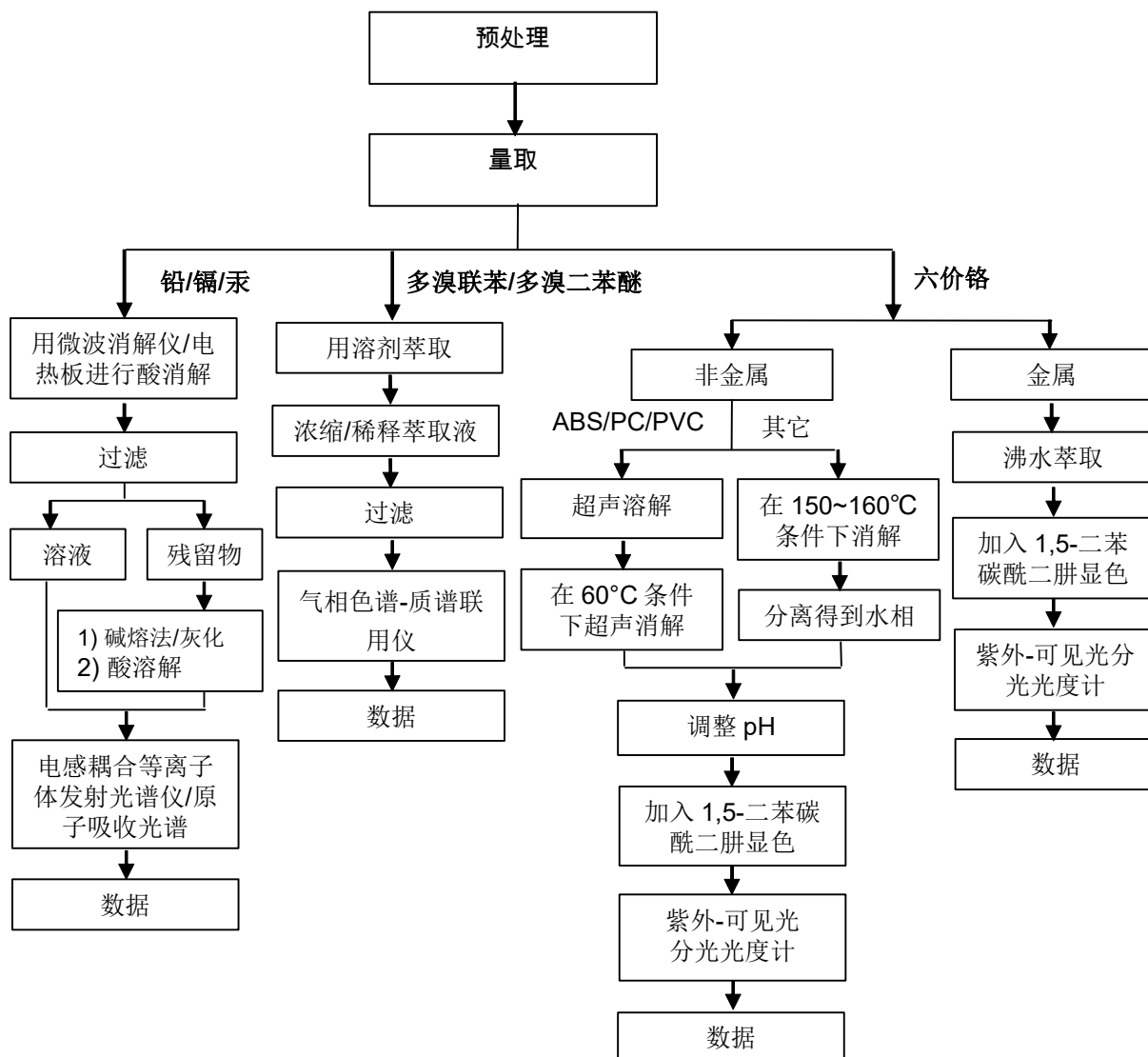
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附件

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 检测流程图

1) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚检测除外)。



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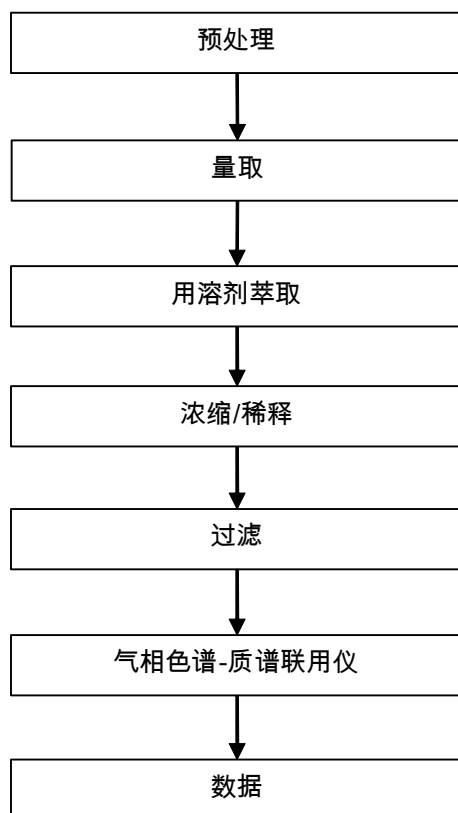
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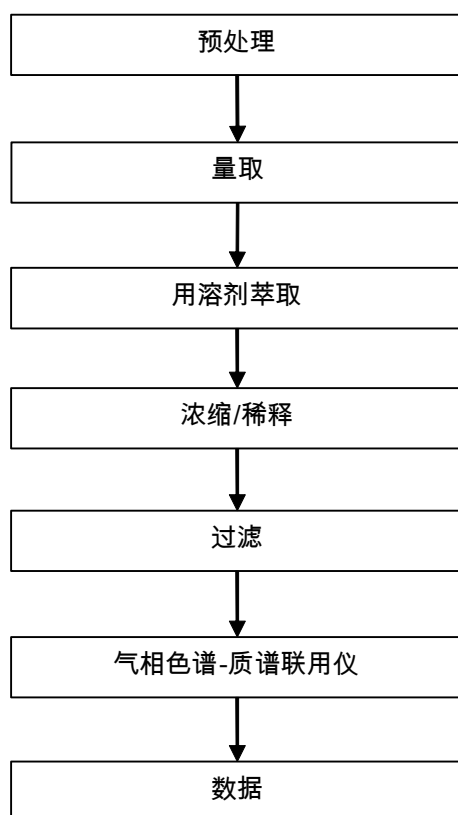
附件

Phthalates 检测流程图



附件

HBCDD 检测流程图

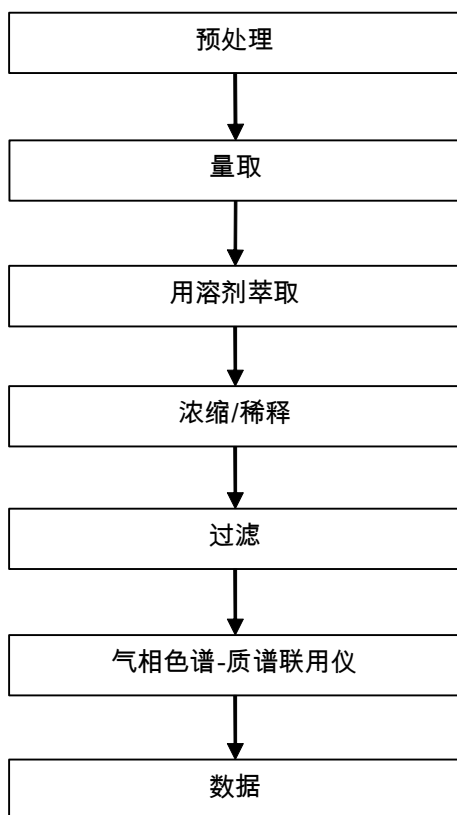


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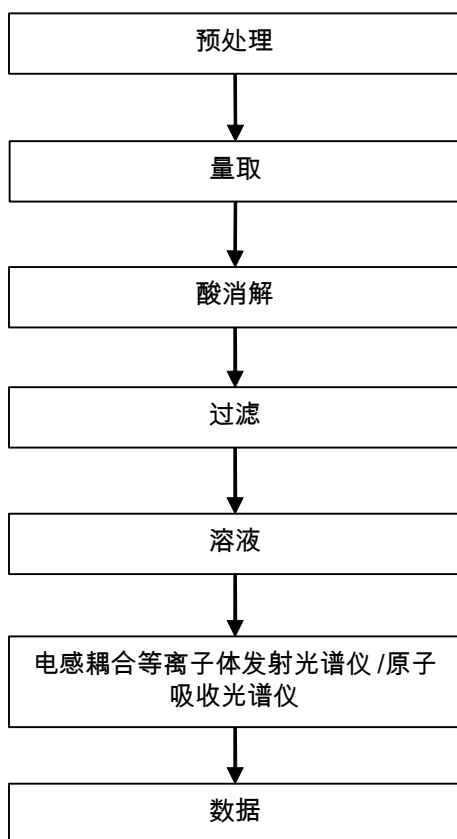
附件

PAHs 检测流程图



附件

元素检测流程图



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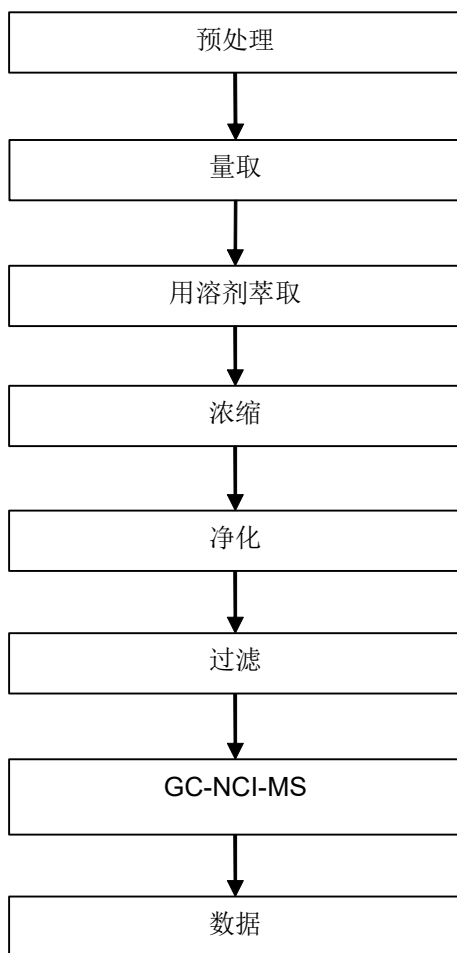
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SCCP/MCCP/LCCP 检测流程图

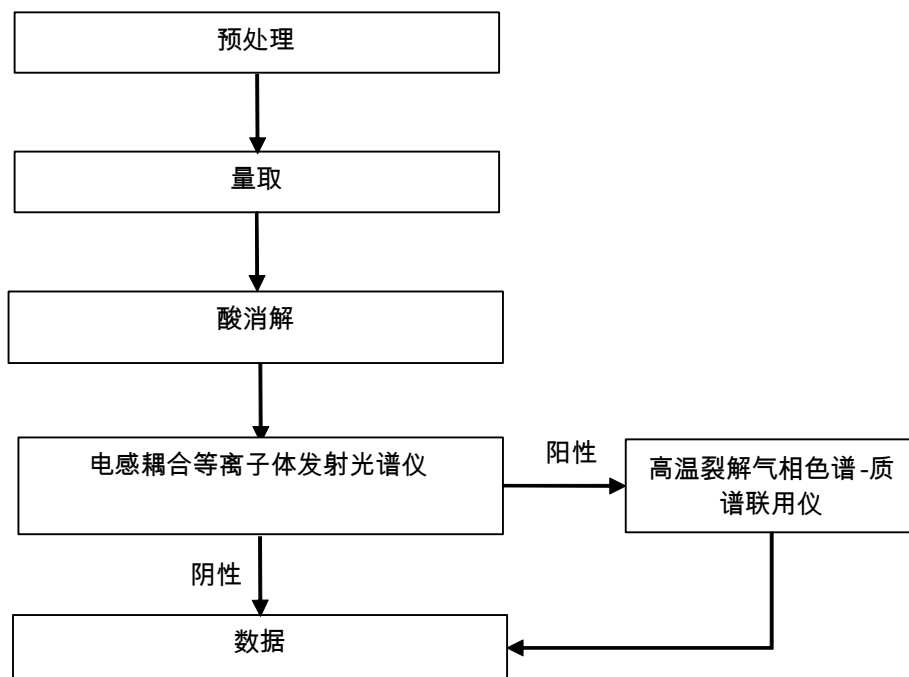


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红磷检测流程图

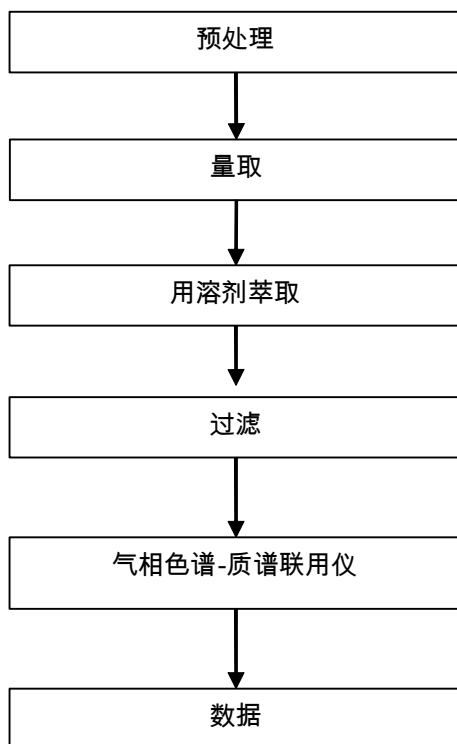


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持久性、生物累积性和毒性 (PBT) 化学物质检测流程图



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检测报告

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