检测报告

编号：CANEC23015607312　　**日期：**2023 年 12 月 14 日　　

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：　GZP23-018754

样品接收时间：　2023 年 12 月 04 日

检测周期：　2023 年 12 月 04 日 ~ 2023 年 12 月 13 日

检测要求：　根据客户要求检测

检测方法：　见后续页。

检测结果：　见后续页。

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-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)	符合
四溴双酚 A (TBBP-A)	见检测结果
中链氯化石蜡(C14-C17) (MCCPs)	见检测结果
AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)	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
元素分析	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

钟臻

Jany Zhong 钟臻
批准签署人

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检测要求	结论
红磷	见检测结果
石棉	见检测结果
氯化石蜡	见检测结果
二氯化钴	见检测结果
六溴环十二烷(HBCDD)	见检测结果
有机锡化合物	见检测结果
臭氧破坏物质 (ODS)	见检测结果
邻苯二甲酸盐(或酯)	见检测结果

检测结果：

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A2	CAN23-0156073-0001.C002	棕色单面覆铜板(取用无"KB"印字部分测试)

备注：

(1) 1 mg/kg = 1 ppm = 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-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)

检测方法： 参考 IEC 62321-4:2013+AMD1:2017， 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	A2
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(MonoBB)	-	mg/kg	5	ND
二溴联苯(DiBB)	-	mg/kg	5	ND
三溴联苯(TriBB)	-	mg/kg	5	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND

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检测项目	限值	单位	MDL	A2
五溴联苯(PentaBB)	-	mg/kg	5	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND
十溴二苯醚(DecaBDE)	-	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。

四溴双酚 A (TBBP-A)

检测方法： 参考 US EPA 3550C: 2007，采用 GC-MS 或 LC-MS 或 LC-MS/MS 进行分析。

检测项目	CAS No.	单位	MDL	A2
四溴双酚 A(TBBP-A)	79-94-7	mg/kg	5	ND

中链氯化石蜡(C14-C17) (MCCPs)

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	A2
中链氯化石蜡(C_{14}-C_{17}) (MCCPs)	85535-85-9 和其它	mg/kg	50	ND

AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)

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

检测项目	CAS No.	单位	MDL	A2
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
苯并(a)蒽 (BaA)	56-55-3	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
䓛 (CHR)	218-01-9	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)苝(二萘嵌苯) (BPE)	191-24-2	mg/kg	0.1	ND
茚苯(1,2,3-c,d)芘 (IPY)	193-39-5	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
芘 (PYR)	129-00-0	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
4 项多环芳香烃总和[菲 (PHE),芘 (PYR),蒽 (ANT),荧蒽 (FLT)]	-	mg/kg	-	ND
萘 (NAP)	91-20-3	mg/kg	0.1	ND
15 项多环芳香烃总和	-	mg/kg	-	ND
材料分类	-	-	-	-

备注：

AfPS(德国产品安全委员会): 认证对多环芳香烃的要求

参数 单位：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
䓛 (CHR) ,mg/kg	< 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

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苯并(g,h,i)苝(二萘嵌苯) (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚苯(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。

检测项目	CAS No.	限值	单位	MDL	A2
十溴二苯醚 (Deca-BDE)[Δ1]	1163-19-5	禁用	mg/kg	5	ND
异丙基化磷酸三苯酯 (PIP 3:1)[Δ2]	68937-41-7	禁用	mg/kg	5	ND
2,4,6-三叔丁基苯酚 (2,4,6-TTBP)[Δ3]	732-26-3	3000	mg/kg	5	ND
六氯丁二烯 (HCBD)	87-68-3	禁用	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) 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
(2) [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；
(3) [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；

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- 用含有 PIP（3:1） 回收产品或物品的塑料制成的产品或物品
(4) [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；

元素分析

检测方法： 参考 US EPA 3052:1996，采用 ICP-OES/AAS 进行分析。

检测项目	单位	MDL	A2
砷(As)	mg/kg	10	ND
铍(Be)	mg/kg	5	ND
镍(Ni)	mg/kg	5	ND
锑(Sb)	mg/kg	10	ND

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	CAS No.	单位	MDL	A2
红磷	7723-14-0	mg/kg	500	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	A2
温石棉	12001-29-5 /132207-32-0	%(m/m)	0.1	阴性
铁镁闪石	12172-73-5	%(m/m)	0.1	阴性
兰闪石	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=未检出石棉，阳性=检出石棉

氯化石蜡

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	A2
短链氯化石蜡(SCCP)(C_{10}-C_{13})	85535-84-8	mg/kg	50	ND

二氯化钴

检测方法： 参考 SGS 内部方法，采用 IC 和 ICP-OES 进行分析。

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检测项目	单位	MDL	A2
二氯化钴 ◆	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。

六溴环十二烷(HBCDD)

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

检测项目	CAS No.	单位	MDL	A2
六溴环十二烷(HBCDD)及其非对映异构体(α-HBCDD, β-HBCDD, γ-HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	20	ND

有机锡化合物

检测方法： 参考 ISO 17353:2004，采用 GC-MS 进行分析。

检测项目	单位	MDL	A2
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
三苯基锡 (TPhT)	mg/kg	0.02	ND
三环己基锡 (TCyHT)	mg/kg	0.02	ND
三甲基锡(TMT)	mg/kg	0.02	ND
三辛基锡 (TOT)	mg/kg	0.02	ND
三丙基锡(TPT)	mg/kg	0.02	ND

臭氧破坏物质 (ODS)

检测方法： 参考 US EPA 5021A：2014, 采用 HS-GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A2
CFC-11	75-69-4	μg/g	0.1	ND
CFC-12	75-71-8	μg/g	0.1	ND
CFC-113	354-58-5 /76-13-1	μg/g	0.1	ND
CFC-114	374-07-2 /76-14-2	μg/g	0.1	ND
CFC-13	75-72-9	μg/g	0.1	ND
CFC-111	354-56-3	μg/g	0.1	ND
CFC-112	76-11-9	μg/g	0.1	ND
CFC-113a	354-58-5	μg/g	0.1	ND

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检测项目	CAS No.	单位	MDL	A2
CFC-114a	374-07-2	µg/g	0.1	ND
CFC-115	76-15-3	µg/g	0.1	ND
CFC-211	422-78-6	µg/g	0.1	ND
CFC-212	661-96-1	µg/g	0.1	ND
CFC-213	1652-89-7	µg/g	0.1	ND
CFC-214	677-68-9	µg/g	0.1	ND
CFC-215	1599-41-3	µg/g	0.1	ND
CFC-216	661-97-2	µg/g	0.1	ND
CFC-217	422-86-6	µg/g	0.1	ND
HCFC-21	75-43-4	µg/g	0.1	ND
HCFC-22	75-45-6	µg/g	0.1	ND
HCFC-123	306-83-2	µg/g	0.1	ND
HCFC-124	2837-89-0	µg/g	0.1	ND
HCFC-141b	1717-00-6	µg/g	0.1	ND
HCFC-142b	75-68-3	µg/g	0.1	ND
HCFC-31	593-70-4	µg/g	0.1	ND
HCFC-121	354-14-3	µg/g	0.1	ND
HCFC-122	354-21-2	µg/g	0.1	ND
HCFC-123a	354-23-4	µg/g	0.1	ND
HCFC-124a	354-25-6	µg/g	0.1	ND
HCFC-131	359-28-4	µg/g	0.1	ND
HCFC-131a	811-95-0	µg/g	0.1	ND
HCFC-132a	471-43-2	µg/g	0.1	ND
HCFC-132b	1649-08-7	µg/g	0.1	ND
HCFC-133a	75-88-7	µg/g	0.1	ND
HCFC-221	422-26-4	µg/g	0.1	ND
HCFC-222	422-30-0	µg/g	0.1	ND
HCFC-223	422-52-6	µg/g	0.1	ND
HCFC-225ca	422-56-0	µg/g	0.1	ND
HCFC-225cb	507-55-1	µg/g	0.1	ND
HCFC-226	431-87-8	µg/g	0.1	ND
HCFC-231	421-94-3	µg/g	0.1	ND
HCFC-232	460-89-9	µg/g	0.1	ND
HCFC-233	7125-84-0	µg/g	0.1	ND
HCFC-234	425-94-5	µg/g	0.1	ND
HCFC-235	460-92-4	µg/g	0.1	ND
HCFC-241	666-27-3	µg/g	0.1	ND
HCFC-242	460-63-9	µg/g	0.1	ND
HCFC-243	338-75-0	µg/g	0.1	ND
HCFC-244	679-85-6	µg/g	0.1	ND
HCFC-251	421-41-0	µg/g	0.1	ND
HCFC-252	819-00-1	µg/g	0.1	ND
HCFC-253	460-35-5	µg/g	0.1	ND
HCFC-261	7799-56-6	µg/g	0.1	ND
HCFC-271	430-55-7	µg/g	0.1	ND
HCFC-262	102738-79-4	µg/g	0.1	ND
Halon 1211	353-59-3	µg/g	0.1	ND
Halon 1301	75-63-8	µg/g	0.1	ND

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检测项目	CAS No.	单位	MDL	A2
Halon 2402	124-73-2	μg/g	0.1	ND
CHF_2Br	1511-62-2	μg/g	0.1	ND
CH_2FBr	373-52-4	μg/g	0.1	ND
C_2HFBr_4	-	μg/g	0.1	ND
$C_2HF_2Br_3$	-	μg/g	0.1	ND
$C_2HF_3Br_2$	354-04-1	μg/g	0.1	ND
C_2HF_4Br	-	μg/g	0.1	ND
$C_2H_2FBr_3$	-	μg/g	0.1	ND
$C_2H_2F_2Br_2$	75-82-1	μg/g	0.1	ND
$C_2H_2F_3Br$	421-06-7	μg/g	0.1	ND
$C_2H_3FBr_2$	-	μg/g	0.1	ND
$C_2H_3F_2Br$	359-07-9	μg/g	0.1	ND
C_2H_4FBr	762-49-2	μg/g	0.1	ND
C_3HFBr_6	-	μg/g	0.1	ND
$C_3HF_2Br_5$	-	μg/g	0.1	ND
$C_3HF_3Br_4$	-	μg/g	0.1	ND
$C_3HF_4Br_3$	-	μg/g	0.1	ND
$C_3HF_5Br_2$	-	μg/g	0.1	ND
C_3HF_6Br	-	μg/g	0.1	ND
$C_3H_2FBr_5$	-	μg/g	0.1	ND
$C_3H_2F_2Br_4$	-	μg/g	0.1	ND
$C_3H_2F_3Br_3$	-	μg/g	0.1	ND
$C_3H_2F_4Br_2$	-	μg/g	0.1	ND
$C_3H_2F_5Br$	-	μg/g	0.1	ND
$C_3H_3F_3Br_2$	-	μg/g	0.1	ND
$C_3H_3F_4Br$	-	μg/g	0.1	ND
$C_3H_4FBr_3$	-	μg/g	0.1	ND
$C_3H_4F_2Br_2$	-	μg/g	0.1	ND
$C_3H_4F_3Br$	-	μg/g	0.1	ND
$C_3H_5FBr_2$	-	μg/g	0.1	ND
$C_3H_5F_2Br$	-	μg/g	0.1	ND
C_3H_6FBr	-	μg/g	0.1	ND
二溴氟甲烷	1868-53-7	μg/g	0.1	ND
一溴甲烷	74-83-9	μg/g	0.1	ND
溴氯甲烷	74-97-5	μg/g	0.1	ND
HFC-23	75-46-7	μg/g	0.1	ND
HFC-32	75-10-5	μg/g	0.1	ND
HFC-41	593-53-3	μg/g	0.1	ND
HFC-43-10mee	138495-42-8	μg/g	0.1	ND
HFC-125	354-33-6	μg/g	0.1	ND
HFC-134	359-35-3	μg/g	0.1	ND
HFC-134a	811-97-2	μg/g	0.1	ND
HFC-152a	75-37-6	μg/g	0.1	ND
HFC-143	420-46-2	μg/g	0.1	ND
HFC-143a	430-66-0	μg/g	0.1	ND
HFC-227ea	431-89-0	μg/g	0.1	ND
HFC-236 cb	677-56-5	μg/g	0.1	ND
HFC-236ea	431-63-0	μg/g	0.1	ND

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检测项目	CAS No.	单位	MDL	A2
HFC-236fa	690-39-1	μg/g	0.1	ND
HFC-245ca	679-86-7	μg/g	0.1	ND
HFC-245fa	460-73-1	μg/g	0.1	ND
HFC-365mfc	406-58-6	μg/g	0.1	ND
全氟甲烷	75-73-0	μg/g	0.1	ND
全氟乙烷	76-16-4	μg/g	0.1	ND
全氟丙烷	76-19-7	μg/g	0.1	ND
全氟丁烷	355-25-9	μg/g	0.1	ND
全氟戊烷	678-26-2	μg/g	0.1	ND
全氟己烷	355-42-0	μg/g	0.1	ND
全氟环丁烷	115-25-3	μg/g	0.1	ND
1,3-二氯丙烷	142-28-9	μg/g	0.1	ND
2,2-二氯丙烷	594-20-7	μg/g	0.1	ND
四氯化碳	56-23-5	μg/g	0.1	ND
氯乙烷	75-00-3	μg/g	0.1	ND
三氯甲烷	67-66-3	μg/g	0.1	ND
一氯甲烷	74-87-3	μg/g	0.1	ND
顺-1,2-二氯乙烯	156-59-2	μg/g	0.1	ND
顺-1,3-二氯丙烯	10061-01-5	μg/g	0.1	ND
六氯丁二烯	87-68-3	μg/g	0.1	ND
二氯甲烷	75-09-2	μg/g	0.1	ND
四氯乙烯	127-18-4	μg/g	0.1	ND
反-1,2-二氯乙烯	156-60-5	μg/g	0.1	ND
反-1,3-二氯丙烯	10061-02-6	μg/g	0.1	ND
三氯乙烯	79-01-6	μg/g	0.1	ND
1,1,1,2-四氯乙烷	630-20-6	μg/g	0.1	ND
1,1,1-三氯乙烷	71-55-6	μg/g	0.1	ND
1,1,2,2-四氯乙烷	79-34-5	μg/g	0.1	ND
1,1,2-三氯乙烷	79-00-5	μg/g	0.1	ND
1,1-二氯乙烷	75-34-3	μg/g	0.1	ND
1,1-二氯乙烯	75-35-4	μg/g	0.1	ND
1,1-二氯丙烯	563-58-6	μg/g	0.1	ND
1,2,3-三氯丙烷	96-18-4	μg/g	0.1	ND
1,2-二氯乙烷	107-06-2	μg/g	0.1	ND
1,2-二氯丙烷	78-87-5	μg/g	0.1	ND
$C_3F_6Cl_2$	1652-80-8	μg/g	0.1	ND
六氟化硫	2551-62-4	μg/g	0.1	ND
HFC-161	353-36-6	μg/g	0.1	ND
HCFC-224	422-54-8	μg/g	0.1	ND

邻苯二甲酸盐(或酯)

检测方法： 参考 IEC 62321-8:2017，采用 GC-MS 进行分析。

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检测项目	CAS No.	单位	MDL	A2
邻苯二甲酸二丁酯 (DBP)	84-74-2	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	85-68-7	mg/kg	50	ND
邻苯二甲酸二异壬酯(DINP)	28553-12-0 /68515-48-0	mg/kg	50	ND
邻苯二甲酸二辛酯(DNOP)	117-84-0	mg/kg	50	ND
邻苯二甲酸二异癸酯(DIDP)	26761-40-0 /68515-49-1	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	84-69-5	mg/kg	50	ND
邻苯二甲酸二(2-甲氧基乙基)酯(DMEP)	117-82-8	mg/kg	50	ND
邻苯二甲酸二正己酯(DnHP)	84-75-3	mg/kg	50	ND
邻苯二甲酸二戊酯 (DPENP/ DnPP)	131-18-0	mg/kg	50	ND
邻苯二甲酸二苯酯(DPhP)	84-62-8	mg/kg	50	ND
邻苯二甲酸双十一酯(DUDP)	3648-20-2	mg/kg	50	ND
邻苯二甲酸二甲酯(DMP)	131-11-3	mg/kg	50	ND
邻苯二甲酸二乙酯(DEP)	84-66-2	mg/kg	50	ND
邻苯二甲酸二丙酯(DPrP)	131-16-8	mg/kg	50	ND
邻苯二甲酸二环己酯(DCHP)	84-61-7	mg/kg	50	ND
邻苯二甲酸二苯甲酯(DBzP)	523-31-9	mg/kg	50	ND
邻苯二甲酸二壬酯(DNP)	84-76-4	mg/kg	50	ND
邻苯二甲酸二异辛酯(DIOP)	27554-26-3	mg/kg	50	ND
邻苯二甲酸二丙烯酯(DAP)	131-17-9	mg/kg	50	ND
1,2一苯二甲酸癸基辛基酯(nDnOP)	119-07-3	mg/kg	50	ND
邻苯二甲酸二癸酯(DnDP)	84-77-5	mg/kg	50	ND
邻苯二甲酸二异戊酯(DiPP)	605-50-5	mg/kg	50	ND
邻苯二甲酸正戊基异戊基酯(nPiPP)	776297-69-9	mg/kg	50	ND
邻苯二甲酸二（2-丁氧基）乙酯（DBEP）	117-83-9	mg/kg	50	ND
邻苯二甲酸二（4-甲基-2-戊基）酯 (BMPP)	146-50-9	mg/kg	50	ND
邻苯二甲酸二（2-乙氧基）乙酯(DEEP)	605-54-9	mg/kg	50	ND
邻苯二甲酸二 C6-C8 支链烷基酯(DIHP)	71888-89-6	mg/kg	50	ND
邻苯二甲酸二正庚酯（DnHpP）	3648-21-3	mg/kg	50	ND
邻苯二酸-二(C7,C9,C11)烷基酯 (DHNUP)	68515-42-4	mg/kg	50	ND
邻苯二甲酸二(支链与直链)戊基酯 (DPP)	84777-06-0	mg/kg	50	ND
邻苯二甲酸双十三烷基酯(DTDP)	119-06-2	mg/kg	50	ND
邻苯二甲酸二(支链与直链)己基酯 (DHxP)	68515-50-4	mg/kg	50	ND
己二酸二(2-乙基己基)酯(DEHA)	103-23-1	mg/kg	50	ND
对苯二甲酸二(2-乙基己)酯(DOTP)	6422-86-2	mg/kg	50	ND
己二酸二异壬酯(DINA)	33703-08-1	mg/kg	50	ND
邻苯二甲酸二(2-丙基庚)酯(DPHpP)	53306-54-0	mg/kg	50	ND
乙酰柠檬酸三丁酯(ATBC)	77-90-7	mg/kg	50	ND

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检测项目	CAS No.	单位	MDL	A2
偏苯三酸三(2-乙基己)酯 (TOTM)	3319-31-1	mg/kg	50	ND

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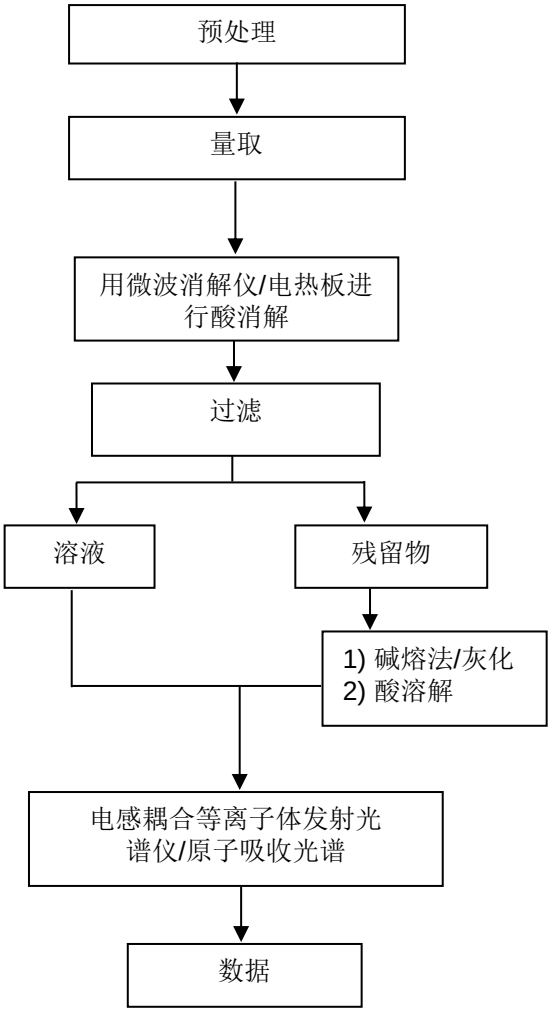
元素检测流程图

样品按照下述流程被完全消解



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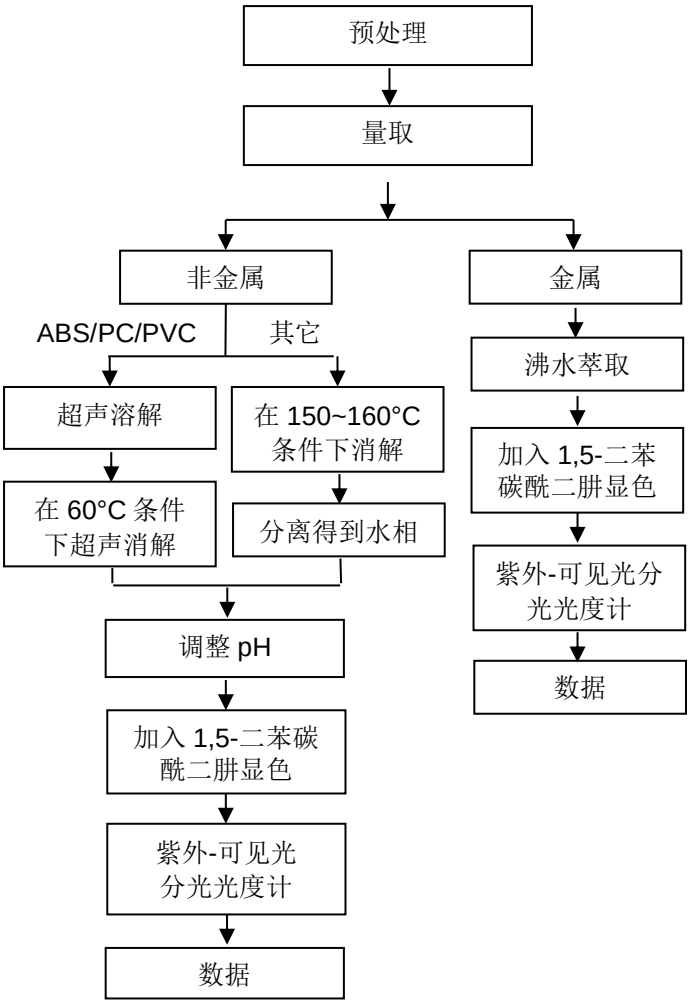
六价铬检测流程图



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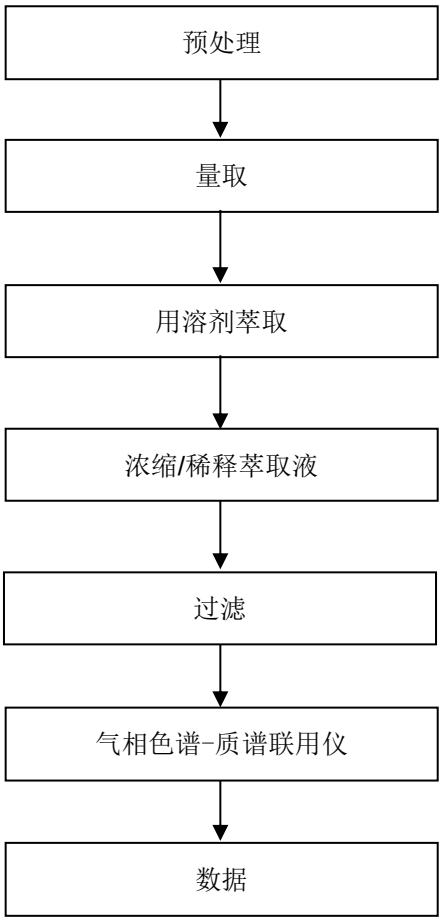
PBBs/PBDEs 检测流程图



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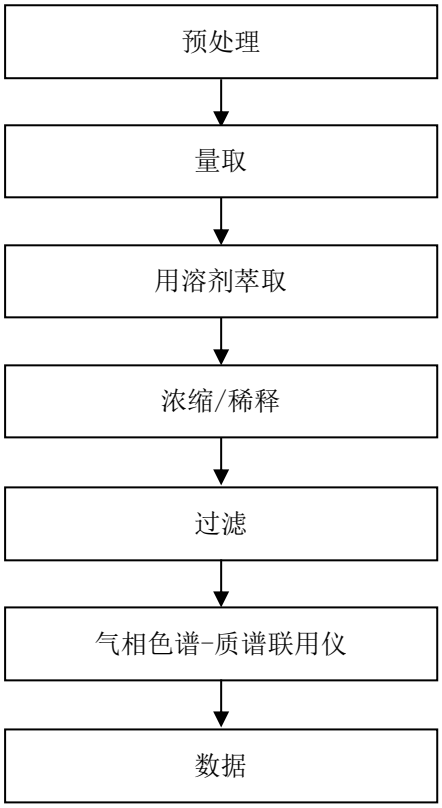
Phthalates 检测流程图



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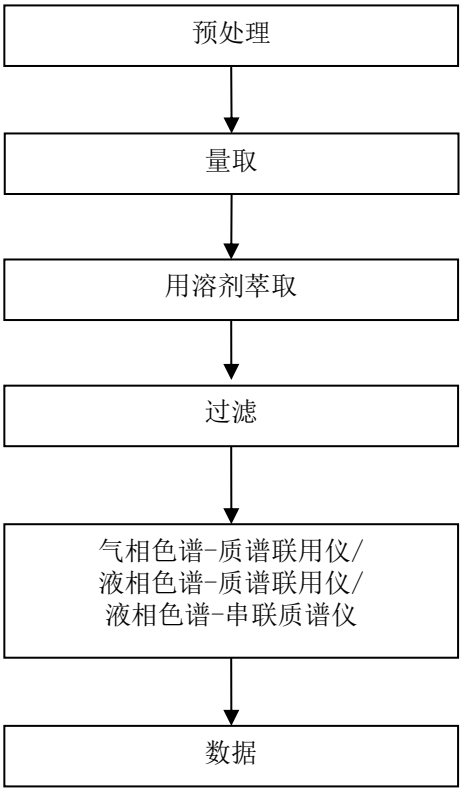
TBBP-A 检测流程图



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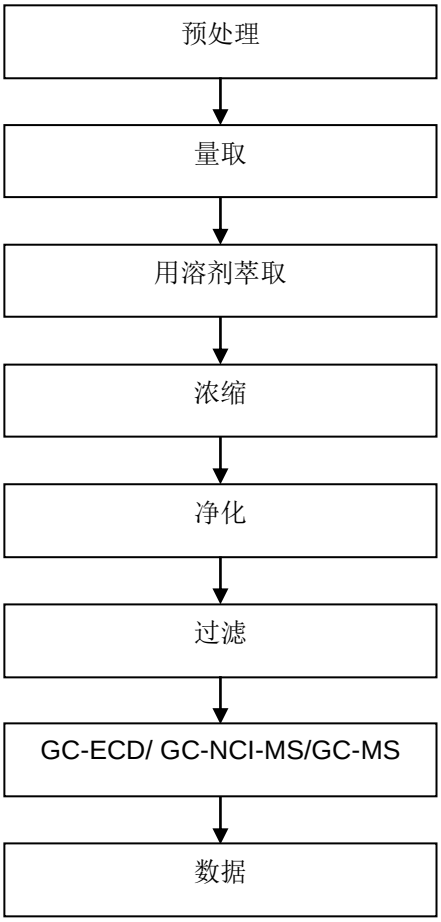
氯化石蜡检测流程图



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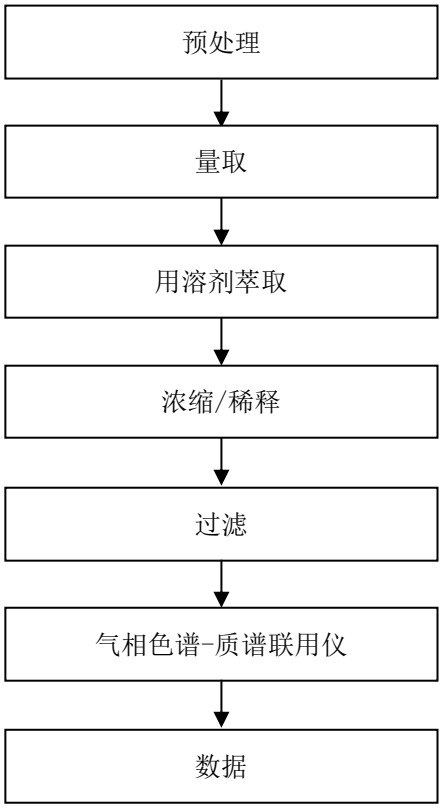
PAHs 检测流程图



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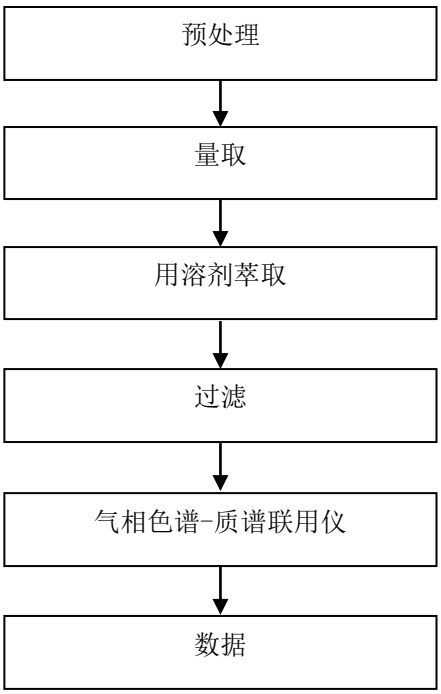
持久性、生物累积性和毒性（PBT）化学物质检测流程图



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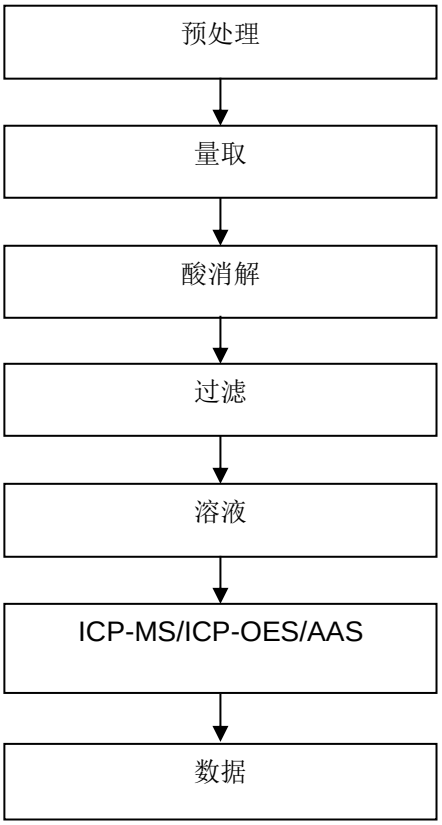
元素检测流程图



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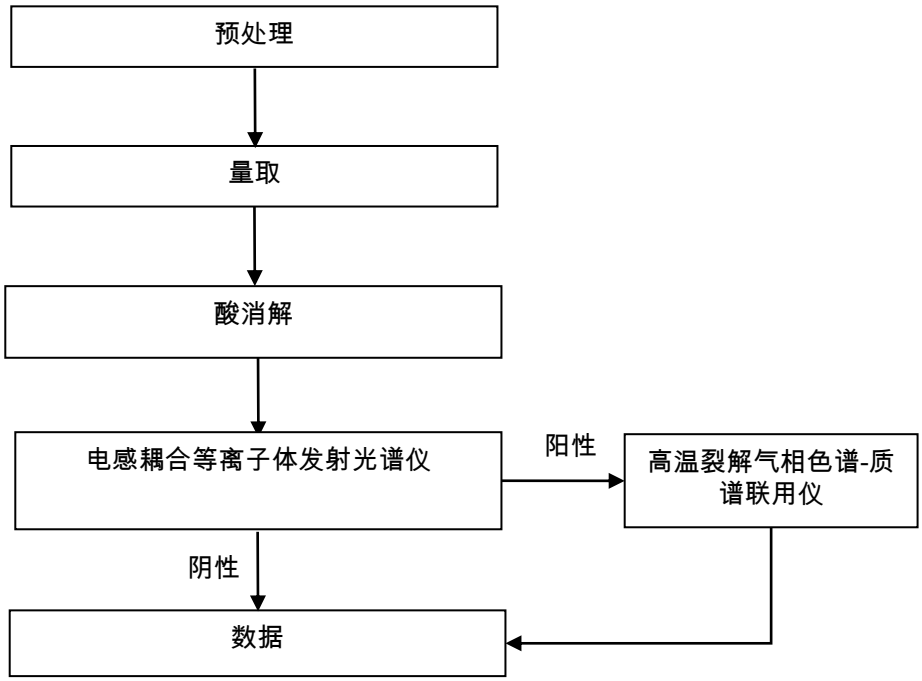
红磷检测流程图



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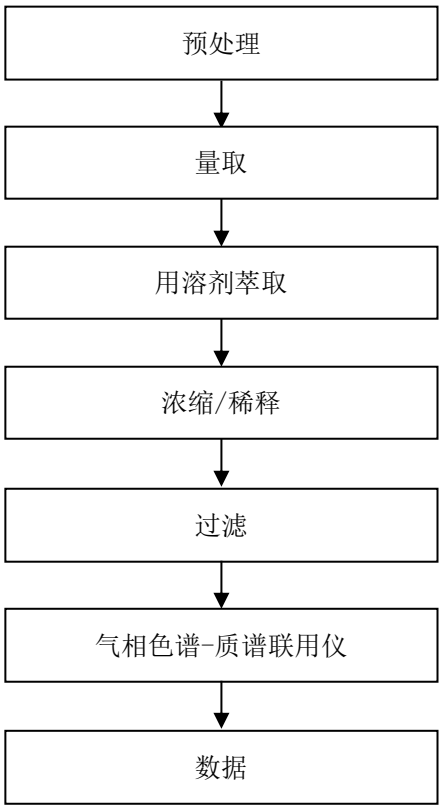
HBCDD 检测流程图



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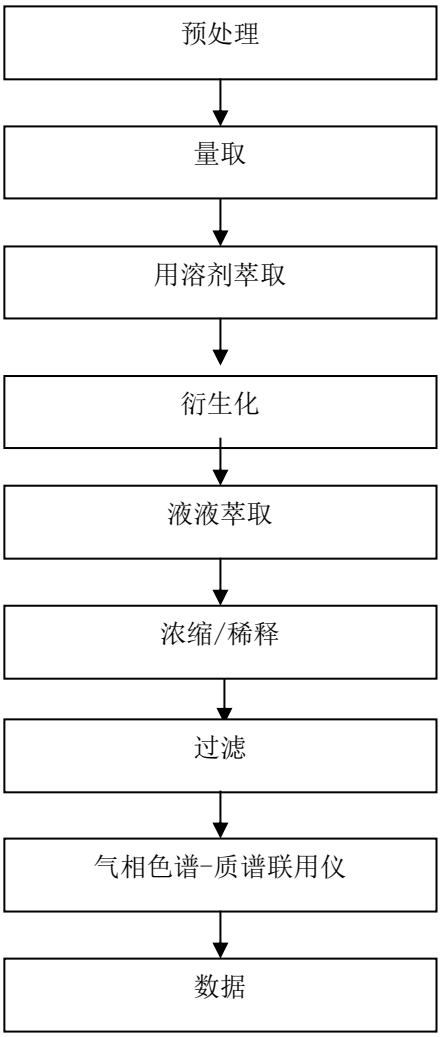
有机锡检测流程图



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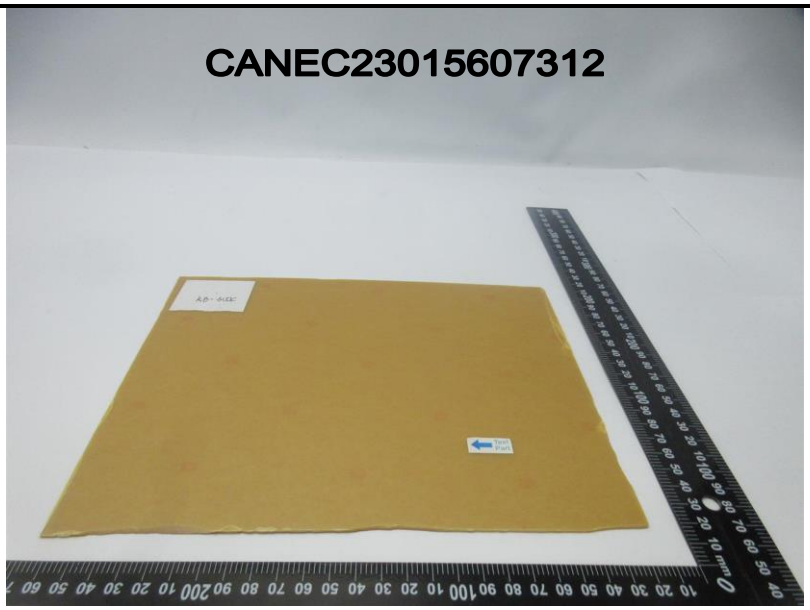

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