



检测报告

报告号: SHHL2001000671OT-CN 日期: 2020 年 01 月 14 日 页码: 1 / 57

常州华威电子有限公司
江苏省常州市钟楼区邹区镇施桥 300 号

本报告是发布日期为 2020 年 01 月 14 日编号为 SHHL2001000671OT OT 英文检测报告的中文译本。如有异议, 以使用检测标准语言的版本为准。

产品名称 : 铝电解电容器 (焊针式&螺栓式)

收样日期 : 2019 年 12 月 24 日

测试时间 : 2019 年 12 月 24 日至 2020 年 01 月 14 日

测试要求 : 1. 镉(Sb)
2. RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863
3. RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863
4. 卤素
5. 邻苯二甲酸盐 (或酯)

测试结论 : 详见测试结果

结果概要 :

测试要求	结论
镉(Sb)	见测试结果
RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863	符合
RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863	符合
卤素	见测试结果
邻苯二甲酸盐 (或酯)	见测试结果



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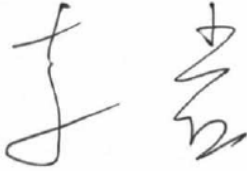
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李岩
授权签字人



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测试项目:

测试样品描述:

样品编号	SGS 样品 ID	描述
SN1	SHA19-286483.001	银色金属薄片
SN2	SHA19-286483.002	银色金属薄片
SN3	SHA19-286483.003	银色金属壳

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

锑(Sb)

测试方法: 参照 US EPA 方法 3050B:1996 测定, 采用 ICP-OES 进行分析

测试项目	单位	MDL	<u>001</u>	<u>002</u>	<u>003</u>
锑(Sb)	mg/kg	10	ND	ND	ND

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。



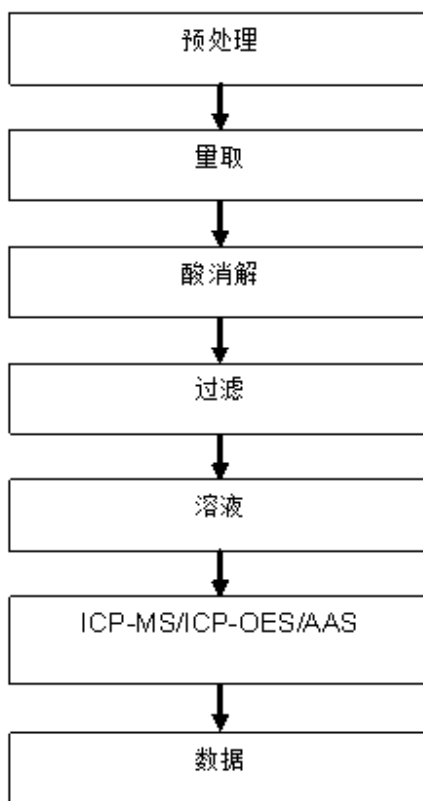
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附件

元素测试流程图



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测试样品描述:

样品编号	SGS 样品 ID	描述
SN1	SHA19-286496.001	黑色塑料带
SN2	SHA19-286496.002	黑色塑料带
SN3	SHA19-286496.003	白色油墨
SN4	SHA19-286496.004	透明软塑料黏性胶带
SN5	SHA19-286496.005	米色纸
SN6	SHA19-286496.006	透明液体
SN7	SHA19-286496.007	银色金属薄片
SN8	SHA19-286496.008	银色金属薄片
SN9	SHA19-286496.009	银色金属壳
SN10	SHA19-286496.010	银色金属导箔条
SN11	SHA19-286496.011	黑色塑料圆垫片
SN12	SHA19-286496.012	银色金属螺钉
SN13	SHA19-286496.013	银色金属螺母
SN14	SHA19-286496.014	蓝色软塑料部件
SN15	SHA19-286496.015	黑色塑料板
SN16	SHA19-286496.016	黑色软塑料圈
SN17	SHA19-286496.017	白色固体

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+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。

测试项目	限值	单位	MDL	001	002	003
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	ND	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND	ND	ND
多溴联苯之和 (PBBs)	1000	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



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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
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)	1000	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

测试项目	限值	单位	MDL	004	005	006
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	ND	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND	ND	ND
多溴联苯之和 (PBBs)	1000	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
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)	1000	mg/kg	-	ND	ND	ND
一溴二苯醚	-	mg/kg	5	ND	ND	ND



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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

测试项目	限值	单位	MDL	011	014	015
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	5	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND	ND	ND
多溴联苯之和 (PBBs)	1000	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
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)	1000	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



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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

测试项目	限值	单位	MDL	016	017
镉 (Cd)	100	mg/kg	2	ND	ND
铅 (Pb)	1000	mg/kg	2	16	ND
汞 (Hg)	1000	mg/kg	2	ND	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND	ND
多溴联苯之和 (PBBs)	1000	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)	1000	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
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	mg/kg	50	ND	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND	ND

备注 :

(1) 最大允许限值引用自 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:1258637,25



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(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+AMD1:2017, IEC 62321-5:2013 和 IEC 62321-7-1:2015, 采用 ICP-OES, AAS 和 UV-Vis 进行分析。

测试项目	限值	单位	MDL	007	008	009
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	ND	24	9
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬 (Cr (VI)) ▼	-	μg/cm ²	0.10	ND	ND	ND

测试项目	限值	单位	MDL	010	012	013
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	ND	37	7
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬 (Cr (VI)) ▼	-	μg/cm ²	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
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

- (2) ▼ =
- 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;
 - 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;
 - 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; 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。



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 Testing Center Hangzhou

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卤素

测试方法: 参照 EN 14582:2007 方法测定, 采用 IC 进行分析.

测试项目	单位	MDL	001	002	003
氟 (F)	mg/kg	50	ND	ND	ND
氯 (Cl)	mg/kg	50	ND	>100000	ND
溴 (Br)	mg/kg	50	ND	ND	ND
碘 (I)	mg/kg	50	ND	ND	ND

测试项目	单位	MDL	004	005	006
氟 (F)	mg/kg	50	ND	ND	ND
氯 (Cl)	mg/kg	50	ND	ND	ND
溴 (Br)	mg/kg	50	ND	ND	ND
碘 (I)	mg/kg	50	ND	ND	ND

测试项目	单位	MDL	011	014	015
氟 (F)	mg/kg	50	ND	ND	ND
氯 (Cl)	mg/kg	50	ND	ND	151
溴 (Br)	mg/kg	50	ND	ND	ND
碘 (I)	mg/kg	50	ND	ND	ND

测试项目	单位	MDL	016	017
氟 (F)	mg/kg	50	453	ND
氯 (Cl)	mg/kg	50	109	ND
溴 (Br)	mg/kg	50	ND	ND
碘 (I)	mg/kg	50	ND	ND

锑 (Sb)

测试方法: 参照 US EPA 方法 3052:1996 测定, 采用 ICP-OES 进行分析.

测试项目	单位	MDL	001	002	003
锑 (Sb)	mg/kg	10	55	ND	ND

测试项目	单位	MDL	004	005	006
锑 (Sb)	mg/kg	10	ND	ND	ND

测试项目	单位	MDL	011	014	015
锑 (Sb)	mg/kg	10	ND	ND	ND

测试项目	单位	MDL	016	017
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锑 (Sb) mg/kg 10 ND ND

锑 (Sb)

测试方法: 参照 US EPA 方法 3050B:1996 测定, 采用 ICP-OES 进行分析

测试项目	单位	MDL	010	012	013
锑 (Sb)	mg/kg	10	ND	ND	ND

邻苯二甲酸盐(或酯)

测试方法: 参照 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	001
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二甲酸二(支链与直链)戊基酯	84777-06-0	%	0.01	ND



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测试项目	CAS NO.	单位	MDL	002
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二甲酸二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

测试项目	CAS NO.	单位	MDL	003
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二甲酸二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

测试项目	CAS NO.	单位	MDL	004
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邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二甲酸二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

测试项目	CAS NO.	单位	MDL	005
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二甲酸二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

测试项目	CAS NO.	单位	MDL	006
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND



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邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二甲酸二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

测试项目	CAS NO.	单位	MDL	O11
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二甲酸二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

测试项目	CAS NO.	单位	MDL	O14
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND



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邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二甲酸二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

测试项目	CAS NO.	单位	MDL	015
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二甲酸二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

测试项目	CAS NO.	单位	MDL	016
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND



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邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
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邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
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1,2-苯二甲酸二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

测试项目	CAS NO.	单位	MDL	017
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
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邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
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1,2-苯二甲酸二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

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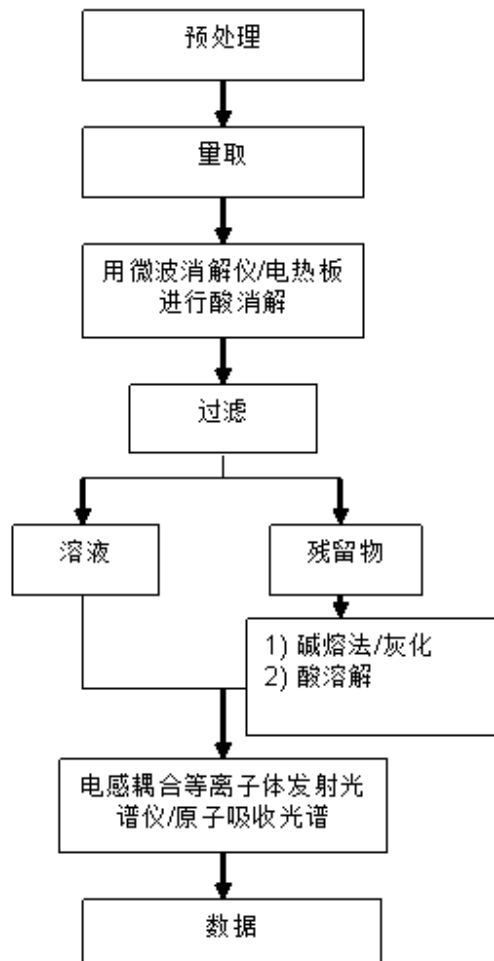
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附件

元素(IEC62321) 测试流程图

1) 样品按照下述流程被完全消解



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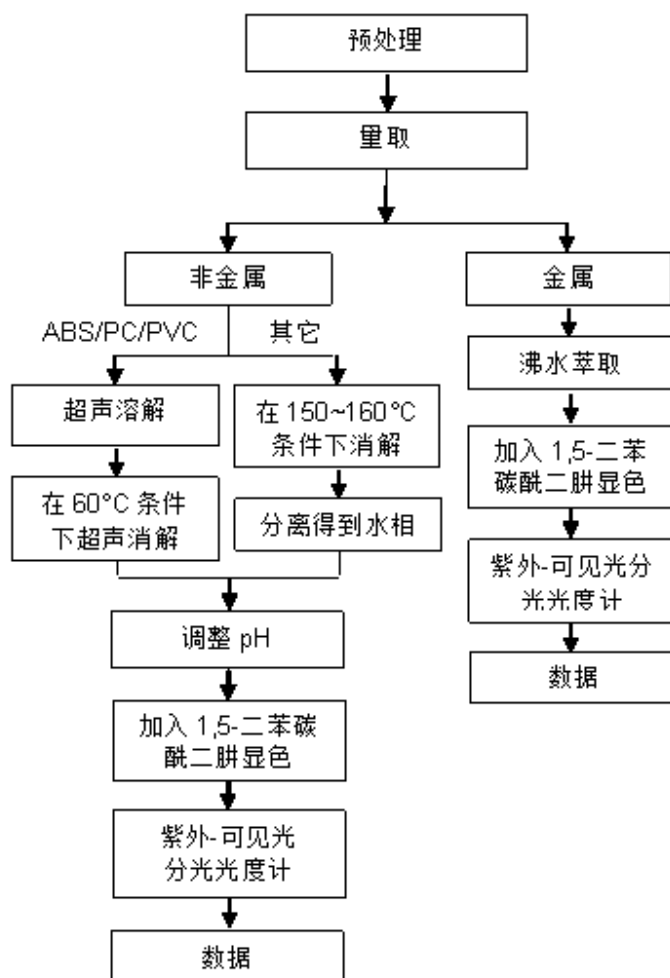
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六价铬测试流程图



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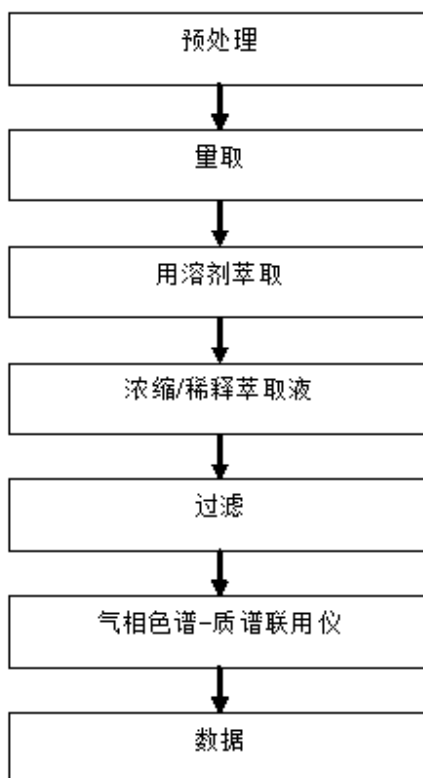
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附件

PBBs/PBDEs 测试流程图

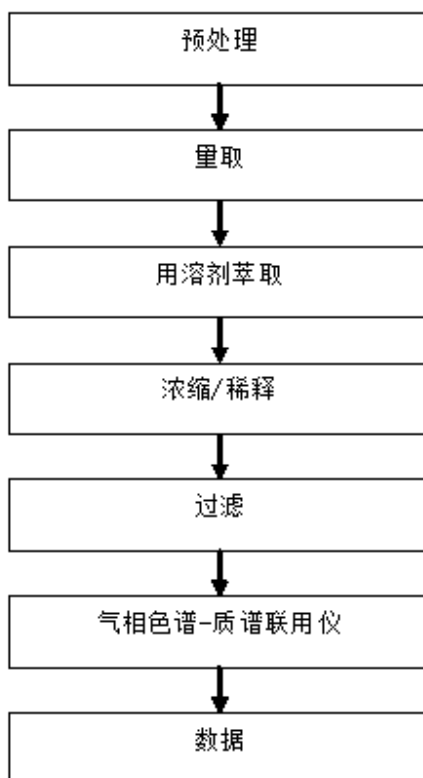


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Phthalates 测试流程图

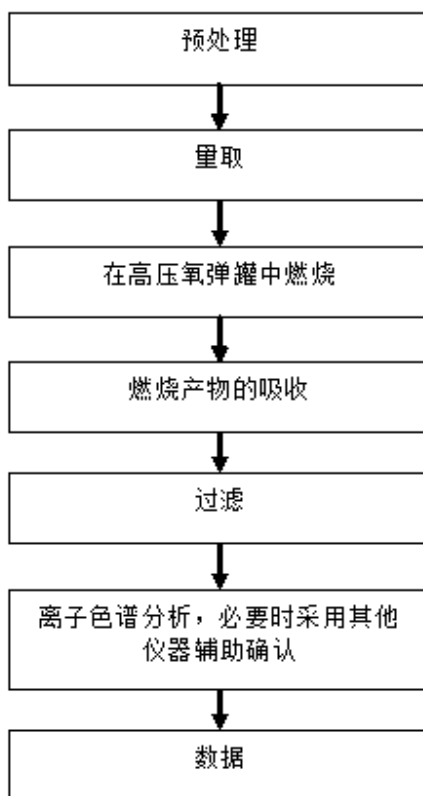


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附件

Halogen(氧弹法)测试流程图



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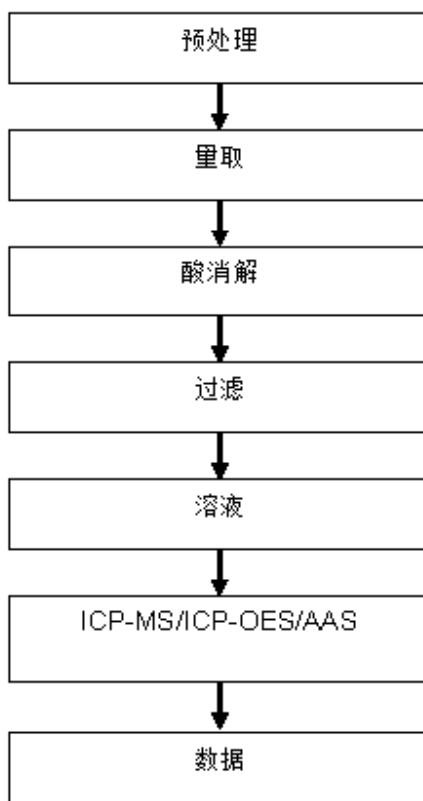
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附件

元素测试流程图



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检测报告

报告号: SHHL2001000671OT-CN

日期: 2020年01月14日

页码: 23 / 57

测试结果 :

测试样品描述 :

样品编号	SGS 样品 ID	描述
SN1	SHA19-286407.001	黑色塑料带
SN2	SHA19-286407.002	黑色塑料带
SN3	SHA19-286407.003	白色油墨
SN4	SHA19-286407.004	透明软塑料黏性胶带
SN5	SHA19-286407.005	米色纸
SN6	SHA19-286407.006	透明液体
SN7	SHA19-286407.007	银色金属薄片
SN8	SHA19-286407.008	银色金属薄片
SN9	SHA19-286407.009	银色金属壳
SN10	SHA19-286407.010	银色金属导箔条
SN11	SHA19-286407.011	黑色塑料圆垫片
SN12	SHA19-286407.012	银色金属针
SN13	SHA19-286407.013	银色金属铆钉
SN14	SHA19-286407.014	银色金属垫片
SN15	SHA19-286407.015	黑色橡胶带着棕色塑料圆板

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+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。

测试项目	限值	单位	MDL	001	002	003
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	ND	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬 (Cr(VI))	1000	mg/kg	8		ND	
六价铬 (Cr(VI))	1000	mg/kg	8	ND		ND
多溴联苯之和 (PBBs)	1000	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



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检测报告

报告号: SHHL2001000671OT-CN

日期: 2020 年 01 月 14 日

页码: 24 / 57

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
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)	1000	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

测试项目	限值	单位	MDL	004	005	006
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	ND	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND	ND	ND
多溴联苯之和 (PBBs)	1000	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
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)	1000	mg/kg	-	ND	ND	ND



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检测报告

报告号: SHHL2001000671OT-CN

日期: 2020年01月14日

页码: 25 / 57

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

测试项目	限值	单位	MDL	011	015
镉 (Cd)	100	mg/kg	2	ND	ND
铅 (Pb)	1000	mg/kg	2	5	ND
汞 (Hg)	1000	mg/kg	2	ND	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND	ND
多溴联苯之和 (PBBs)	1000	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)	1000	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
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



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检测报告

报告号: SHHL2001000671OT-CN

日期: 2020 年 01 月 14 日

页码: 26 / 57

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	mg/kg	50	ND	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND	ND

备注 :

- (1) 最大允许限值引用自 RoHS 指令(EU) 2015/863。IEC 62321 系列等同于 EN 62321 系
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (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+AMD1:2017, IEC 62321-5:2013 和 IEC 62321-7-1:2015, 采用 ICP-OES, AAS 和 UV-Vis 进行分析。

测试项目	限值	单位	MDL	007	008	009
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	ND	24	9
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬 (Cr (VI)) ▼	-	μg/cm ²	0.10	ND	ND	ND

测试项目	限值	单位	MDL	010	012	013
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	ND	ND	6
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬 (Cr (VI)) ▼	-	μg/cm ²	0.10	ND	ND	ND

测试项目	限值	单位	MDL	014
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)) ▼	-	μg/cm ²	0.10	ND

备注 :

- (1) 最大允许限值引用自 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:1258637,25



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检测报告

报告号: SHHL2001000671OT-CN 日期: 2020年01月14日 页码: 27 / 57

- (2) ▼ =
- a. 当六价格的浓度高于 $0.13 \mu\text{g}/\text{cm}^2$ 时, 样品为阳性, 即含有六价格;
 - b. 当六价格的浓度为 ND(低于 $0.10 \mu\text{g}/\text{cm}^2$) 时, 样品为阴性, 即未检测到六价格;
 - c. 当六价格的浓度介于 $0.10 \mu\text{g}/\text{cm}^2$ 与 $0.13 \mu\text{g}/\text{cm}^2$ 之间时, 无法直接判定是否检测到六价格, 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, 样品的六价格测试结果仅能代表测试时样品含六价格的状态。

卤素

测试方法: 参照 EN 14582:2007 方法测定, 采用 IC 进行分析。

测试项目	单位	MDL	001	002	003
氟 (F)	mg/kg	50	ND	ND	ND
氯 (Cl)	mg/kg	50	ND	>100000	ND
溴 (Br)	mg/kg	50	ND	ND	ND
碘 (I)	mg/kg	50	ND	ND	ND

测试项目	单位	MDL	004	005	006
氟 (F)	mg/kg	50	ND	ND	ND
氯 (Cl)	mg/kg	50	ND	ND	ND
溴 (Br)	mg/kg	50	ND	ND	ND
碘 (I)	mg/kg	50	ND	ND	ND

测试项目	单位	MDL	011	015
氟 (F)	mg/kg	50	ND	ND
氯 (Cl)	mg/kg	50	ND	ND
溴 (Br)	mg/kg	50	ND	ND
碘 (I)	mg/kg	50	ND	ND



SGS CSTC (Shanghai) Co., Ltd.
Testing Center Hangzhou

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检测报告

报告号: SHHL2001000671OT-CN

日期: 2020年01月14日

页码: 28 / 57

锑(Sb)

测试方法: 参照 US EPA 方法 3052:1996 测定, 采用 ICP-OES 进行分析.

测试项目	单位	MDL	001	002	003
锑(Sb)	mg/kg	10	55	ND	ND

测试项目	单位	MDL	004	005	006
锑(Sb)	mg/kg	10	ND	ND	ND

测试项目	单位	MDL	011	015
锑(Sb)	mg/kg	10	ND	ND

锑(Sb)

测试方法: 参照 US EPA 方法 3050B:1996 测定, 采用 ICP-OES 进行分析

测试项目	单位	MDL	010	012	013
锑(Sb)	mg/kg	10	ND	ND	ND

测试项目	单位	MDL	014
锑(Sb)	mg/kg	10	ND

邻苯二甲酸盐(或酯)

测试方法: 参照 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	001
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND



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邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二酸二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

测试项目	CAS NO.	单位	MDL	002
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二酸二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

测试项目	CAS NO.	单位	MDL	003
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND



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邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸-二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二甲酸-二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

测试项目	CAS NO.	单位	MDL	004
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸-二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二甲酸-二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

测试项目	CAS NO.	单位	MDL	005
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸-二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND



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邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二甲酸-二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

测试项目	CAS NO.	单位	MDL	006
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸-二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二甲酸-二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

测试项目	CAS NO.	单位	MDL	011
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸-二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二甲酸-二(支链与直链)戊基酯	84777-06-0	%	0.01	ND



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测试项目	CAS NO.	单位	MDL	015
邻苯二甲酸二丁酯 (DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPiPP)	776297-69-9	%	0.003	ND
邻苯二甲酸二(C7, C9, C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)	71888-89-6	%	0.01	ND
1,2-苯二甲酸二(支链与直链)戊基酯	84777-06-0	%	0.01	ND

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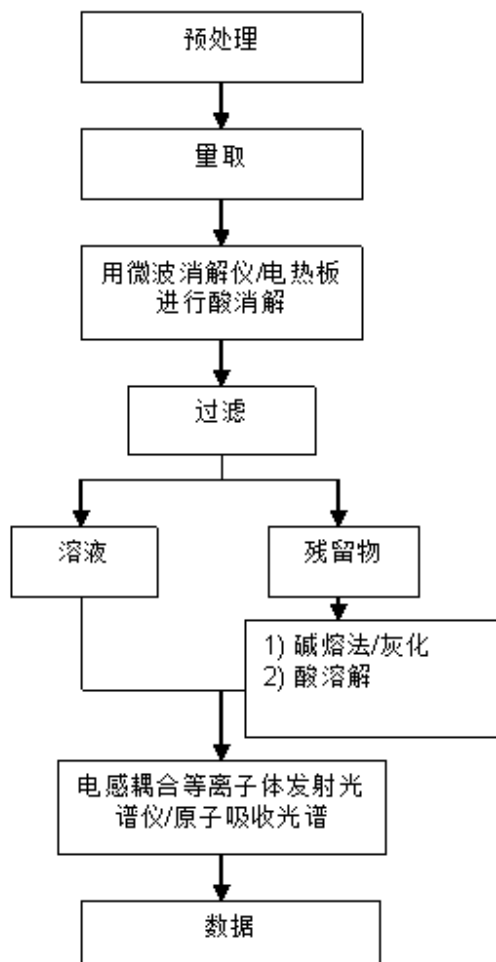
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元素(IEC62321) 测试流程图

1) 样品按照下述流程被完全消解



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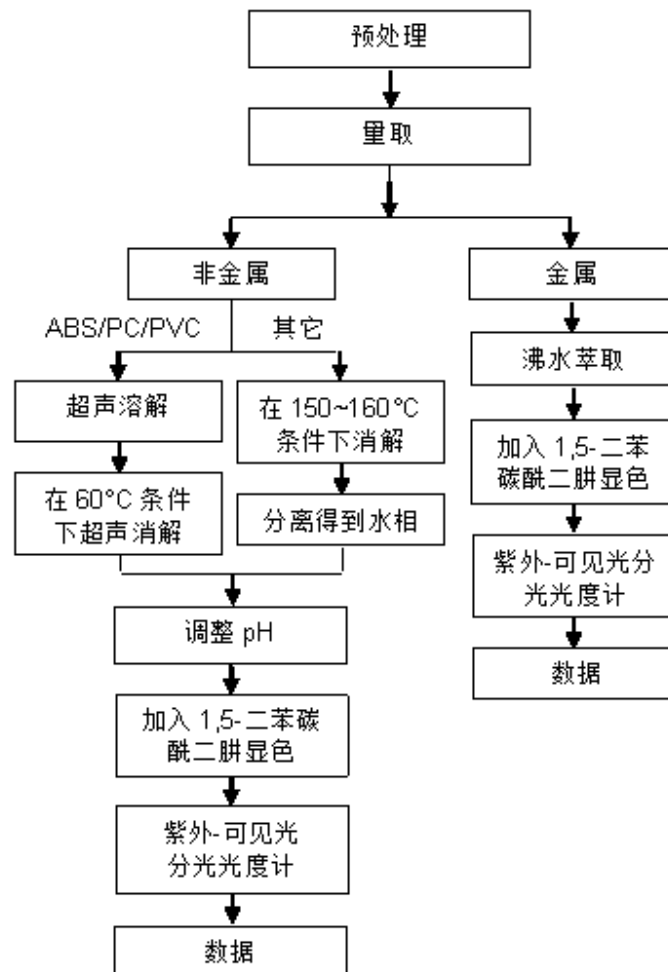
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六价铬测试流程图



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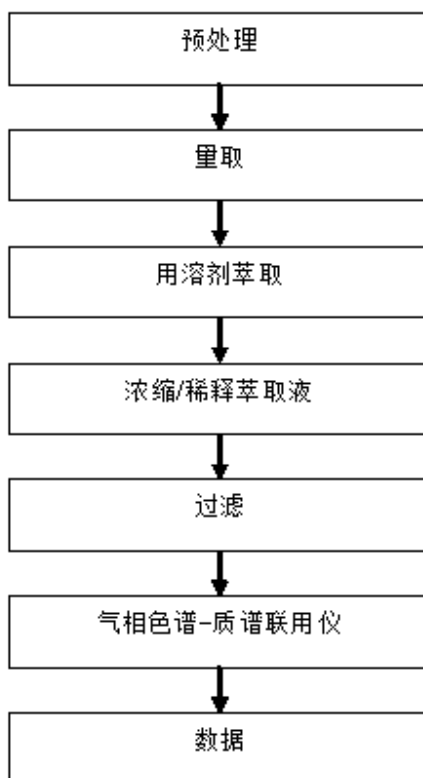
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PBBs/PBDEs 测试流程图



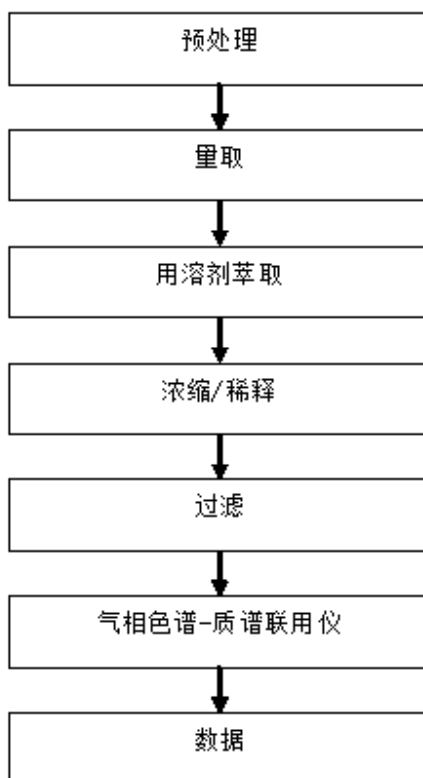
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Phthalates 测试流程图



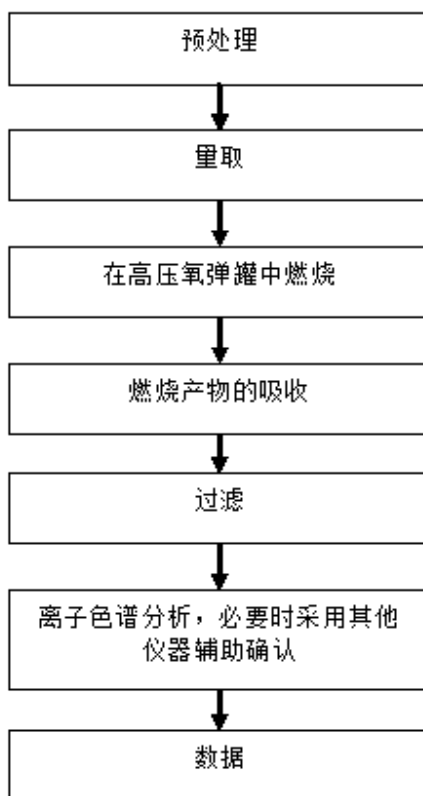
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Halogen(氧弹法)测试流程图

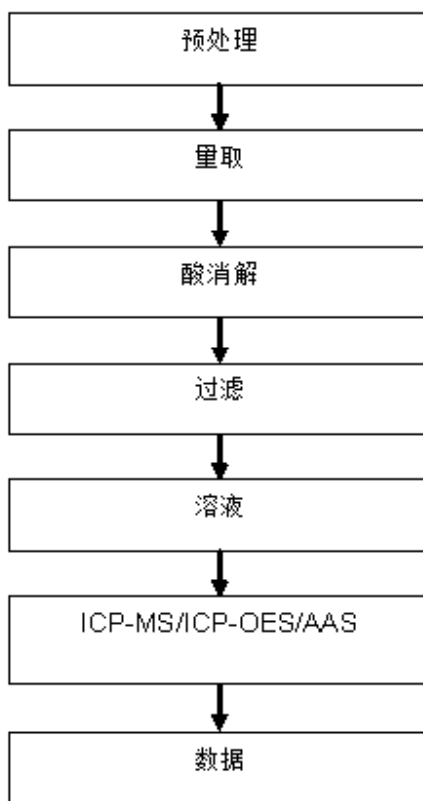


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元素测试流程图



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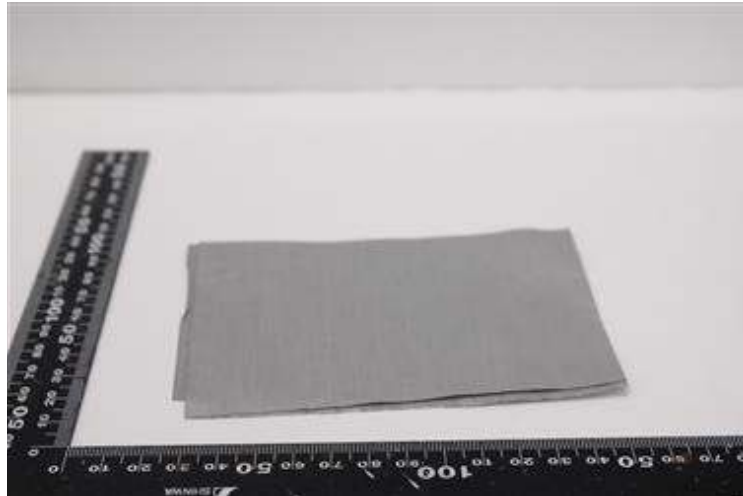
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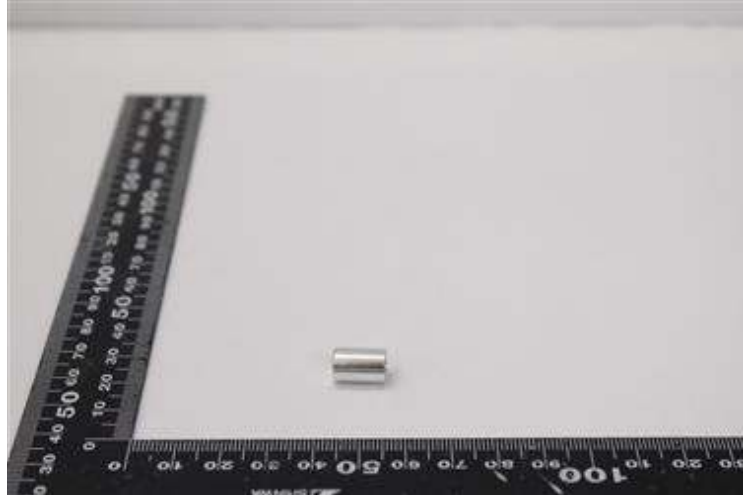
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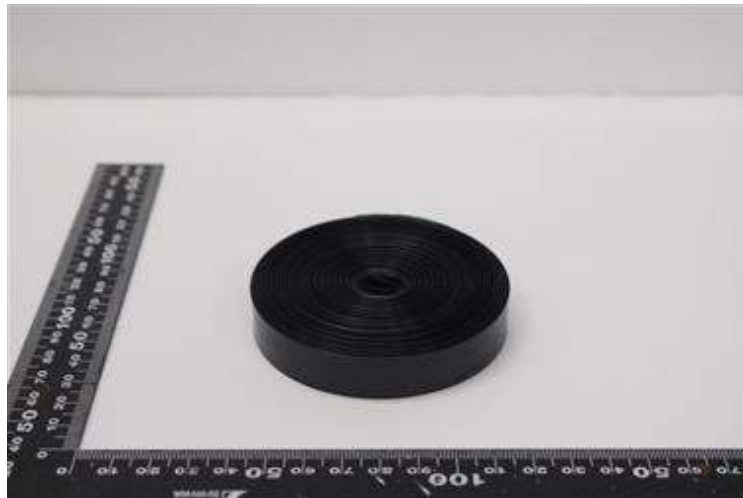
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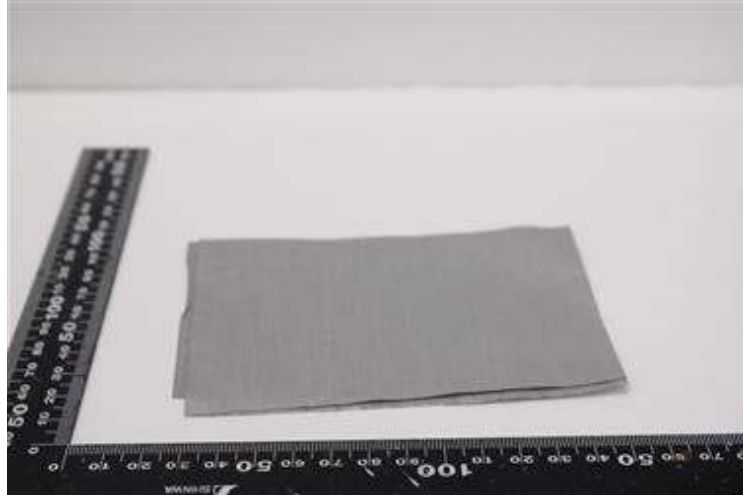
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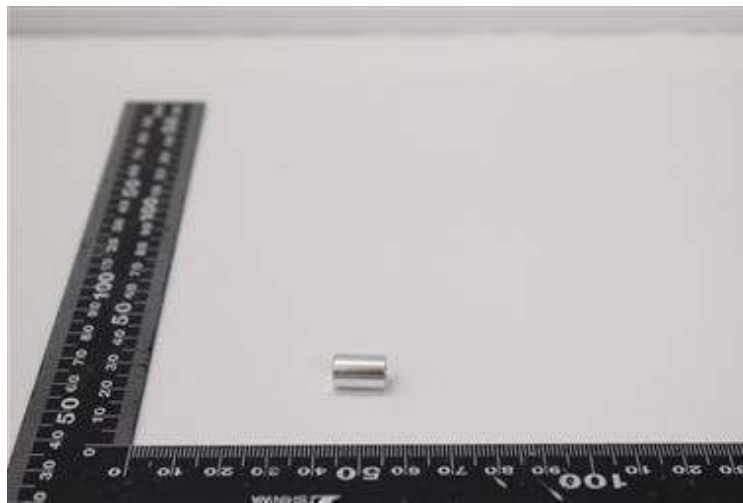
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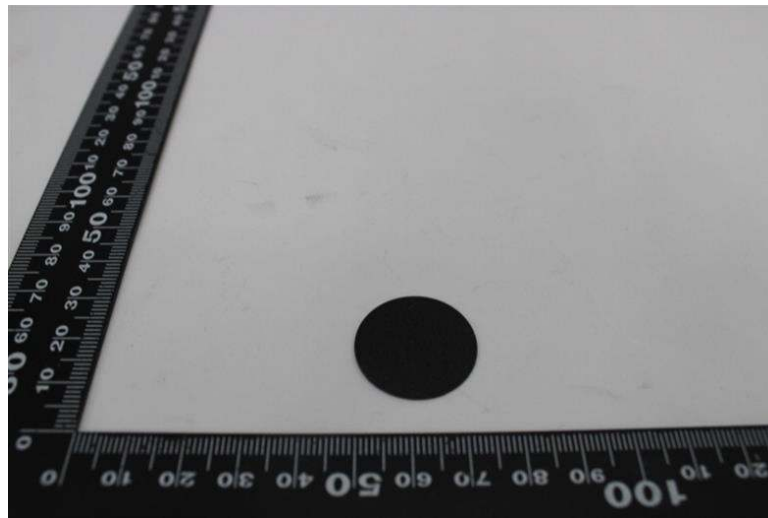


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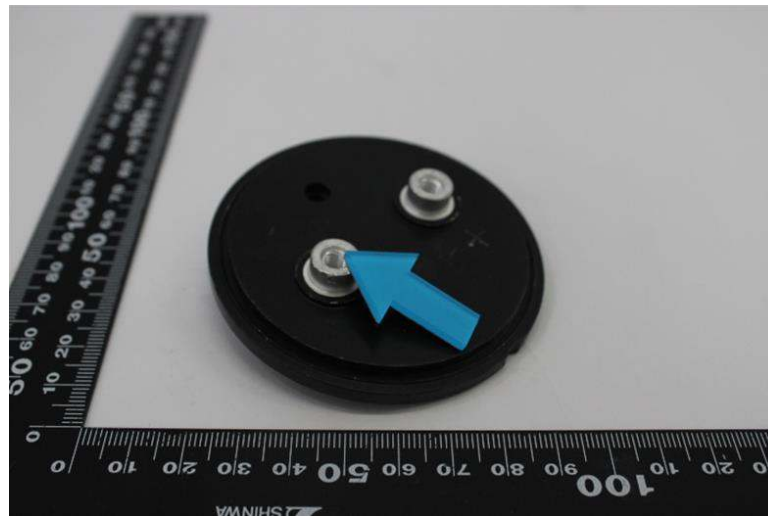
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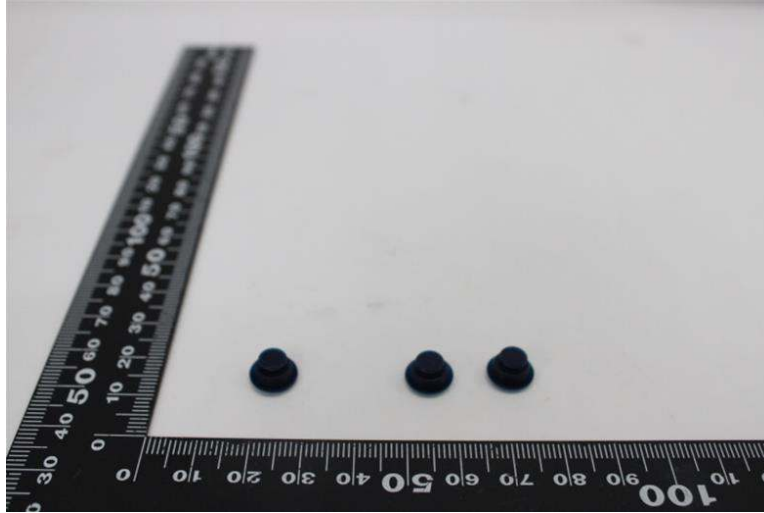


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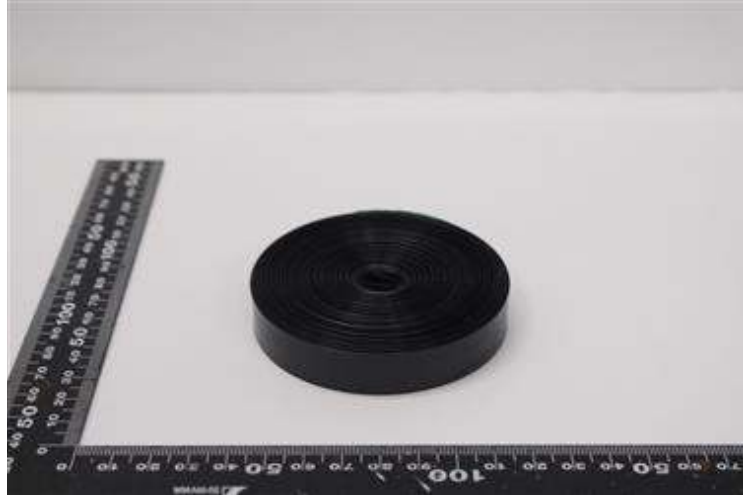
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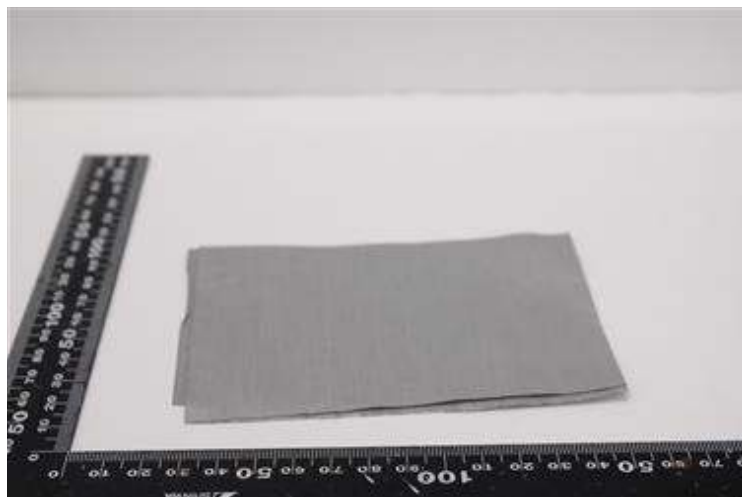
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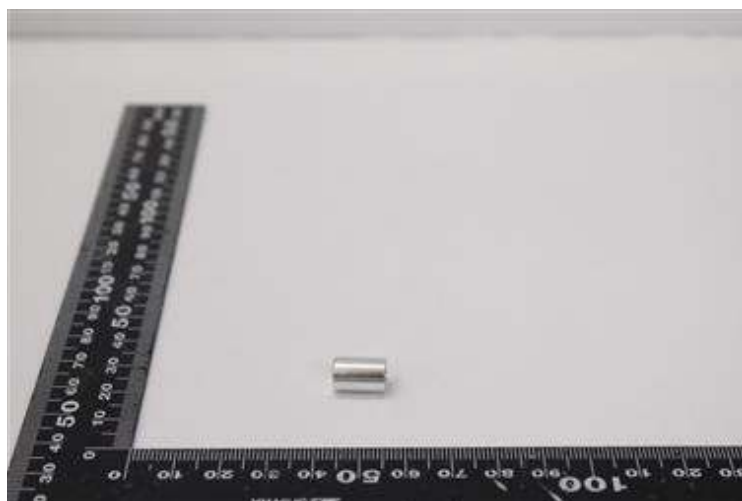
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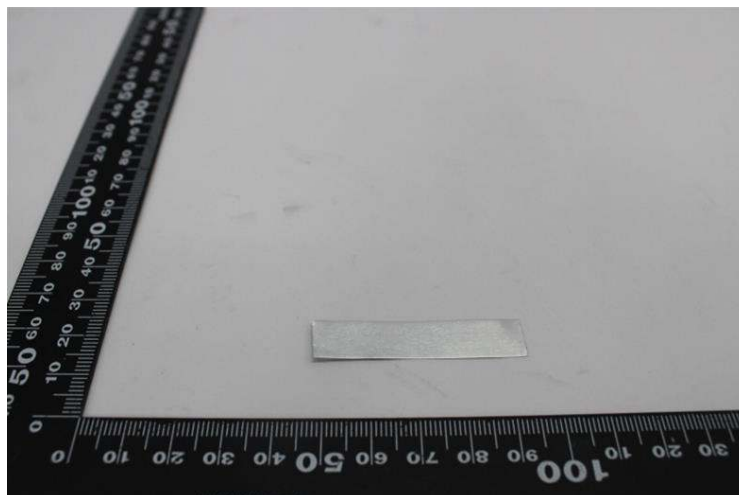
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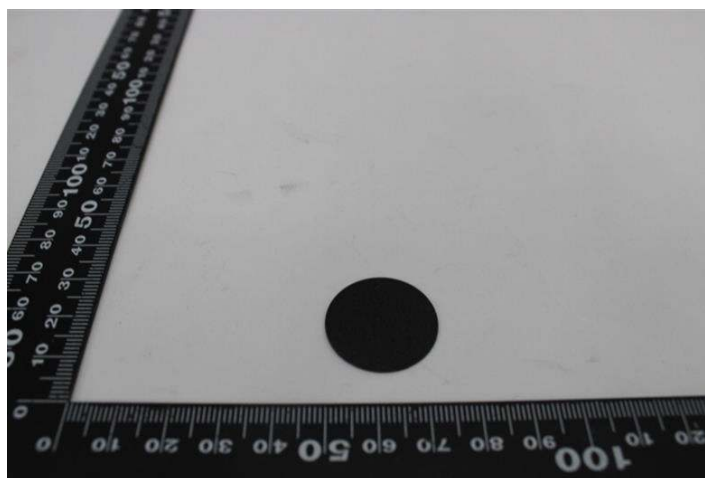
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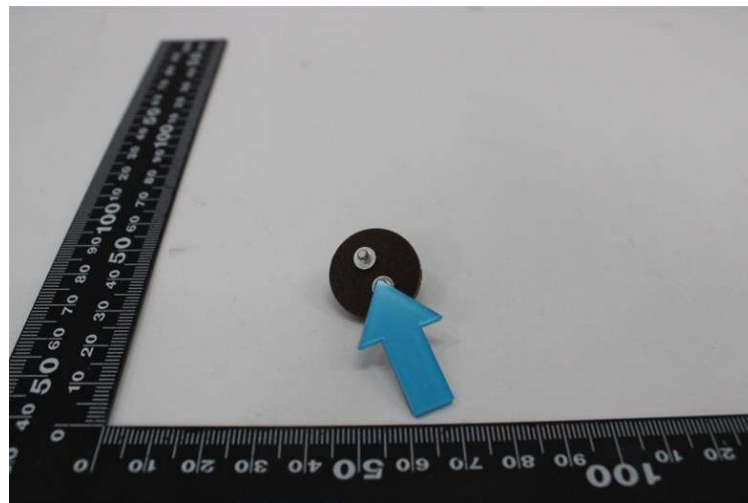
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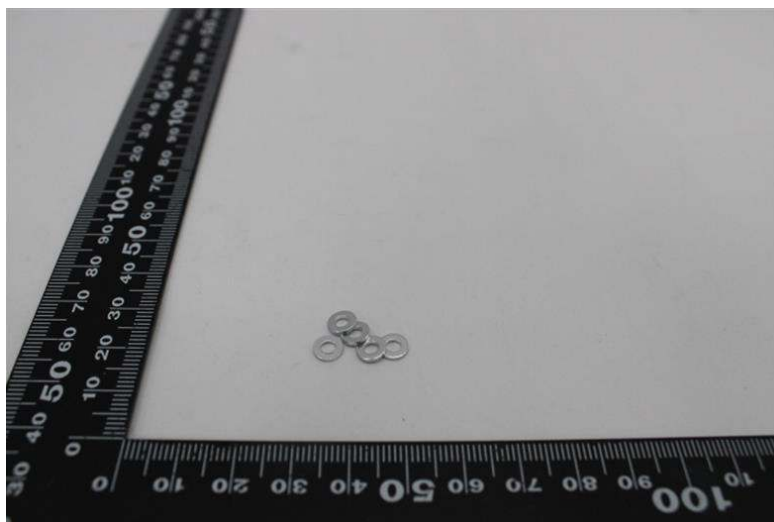
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