

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. 锑(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:

锑(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

邻苯二甲酸盐(或酯) 见测试结果



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李岩 授权签字人



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检测报告 报告号: SHHL2001000671OT-CN 日期: 2020年 01月 14日 页码: 3 / 57

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-0ES 进行分析

 測试项目
 单位
 MDL
 001
 002
 003

 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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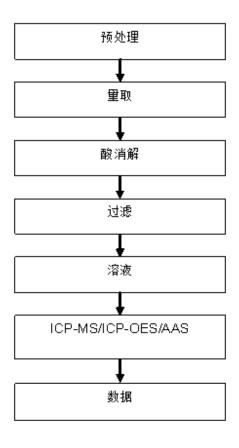
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附件

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: 5 / 57

测试样品描述:

SGS 样品 ID	描述
SHA19-286496.001	黑色塑料带
SHA19-286496.002	黑色塑料带
SHA19-286496.003	白色油墨
SHA19-286496.004	透明软塑料黏性胶带
SHA19-286496.005	米色纸
SHA19-286496.006	透明液体
SHA19-286496.007	银色金属薄片
SHA19-286496.008	银色金属薄片
SHA19-286496.009	银色金属壳
SHA19-286496.010	银色金属导箔条
SHA19-286496.011	黑色塑料圆垫片
SHA19-286496.012	银色金属螺钉
SHA19-286496.013	银色金属螺母
SHA19-286496.014	蓝色软塑料部件
SHA19-286496.015	黑色塑料板
SHA19-286496.016	黑色软塑料圈
SHA19-286496.017	白色固体
	SHA19-286496. 001 SHA19-286496. 002 SHA19-286496. 003 SHA19-286496. 004 SHA19-286496. 005 SHA19-286496. 006 SHA19-286496. 007 SHA19-286496. 009 SHA19-286496. 010 SHA19-286496. 011 SHA19-286496. 011 SHA19-286496. 012 SHA19-286496. 013 SHA19-286496. 014 SHA19-286496. 015 SHA19-286496. 016

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-0ES, UV-Vis 和 GC-MS 进行分析。

测试项目	<u>限值</u>	单位	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
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(PBDI	Es)	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(I		1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯(BI		1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基		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>		<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
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	2. \	-	mg/kg	5	ND	ND	ND
多溴二苯醚之和(PBDI	Es)	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 ([1000	mg/kg	50	ND	ND	ND		
邻苯二甲酸丁苄酯(BE		1000	mg/kg	50	ND	ND	ND		
邻苯二甲酸二(2-乙基		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	<u>015</u>		
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 (PBDE	Es)	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(D	OBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯(BB		1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基		1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯(1000	mg/kg	50	ND	ND	ND
测试项目		限值	单位	<u>MDL</u>	<u>016</u>	<u>017</u>	
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(PBDE	Es)	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(D		1000	mg/kg	50	ND	ND	
邻苯二甲酸丁苄酯(BB		1000	mg/kg	50	ND	ND	
邻苯二甲酸二(2-乙基		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:1 258637, 25



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检测报告 报告号: SHHL2001000671OT-CN 日期: 2020年 01月 14日 页码: 9 / 57

- (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-0ES, AAS 和 UV-Vis 进行分析。

测试项目 镉 (Cd) 铅(Pb) 汞 (Hg) 六价铬(Cr(VI))▼	<u>限值</u> 100 1000 1000 -	<u>单位</u> mg/kg mg/kg mg/kg µg/cm²	MDL 2 2 2 0. 10	OO7 ND ND ND ND	008 ND 24 ND ND	009 ND 9 ND ND
<u>测试项目</u> 镉 (Cd)	<u>限值</u> 100	<u>単位</u> mg/kg	MDL 2	<u>010</u> ND	<u>012</u> ND	<u>013</u> ND
铅(Pb)	1000	mg/kg	2	ND	37	7
汞(Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))▼	_	$\mu\;g/cm^2$	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_0RG_ID,FSP_LANG_ID:1258637,25
- (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;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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<u>卤素</u>

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

测试项目	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
氟(F)	mg/kg	50	ND	ND	ND
氯(C1)	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	<u>单位</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
氟(F)	mg/kg	50	ND	ND	ND
氯(C1)	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	<u>单位</u>	MDL	<u>011</u>	<u>014</u>	<u>015</u>
<u>测试项目</u> 氟(F)	<u>单位</u> mg/kg	MDL 50	<u>011</u> ND	<u>014</u> ND	<u>015</u> ND
氟 (F)	mg/kg mg/kg	50	ND	ND	ND
氟(F) 氯(C1)	mg/kg mg/kg mg/kg	50 50	ND ND	ND ND	ND 151
氟(F) 氯(C1) 溴(Br)	mg/kg mg/kg	50 50 50	ND ND ND	ND ND ND	ND 151 ND
氟(F) 氯(C1) 溴(Br)	mg/kg mg/kg mg/kg	50 50 50 50	ND ND ND ND	ND ND ND ND	ND 151 ND
氣(F) 氯(C1) 溴(Br) 碘(I)	mg/kg mg/kg mg/kg mg/kg	50 50 50	ND ND ND	ND ND ND	ND 151 ND
氟(F) 氯(C1) 溴(Br) 碘(I) <u>测试项目</u> 氟(F)	mg/kg mg/kg mg/kg mg/kg <u>単位</u> mg/kg	50 50 50 50 50 <u>MDL</u>	ND ND ND ND	ND ND ND ND	ND 151 ND
氟(F) 氯(C1) 溴(Br) 碘(I) <u>测试项目</u> 氟(F) 氯(C1)	mg/kg mg/kg mg/kg mg/kg <u>単位</u> mg/kg mg/kg	50 50 50 50 50 <u>MDL</u> 50	ND ND ND ND ND	ND ND ND ND ND	ND 151 ND
氟(F) 氯(C1) 溴(Br) 碘(I) <u>测试项目</u> 氟(F)	mg/kg mg/kg mg/kg mg/kg <u>単位</u> mg/kg	50 50 50 50 50 <u>MDL</u> 50	ND ND ND ND 	ND ND ND ND ND	ND 151 ND

锑(Sb)

测试方法: 参照 US EPA 方法 3052:1996 测定,采用 ICP-0ES 进行分析.

<u>测试项目</u>	<u>单位</u>	MDL	<u>001</u>	<u>002</u>	<u>003</u>
锑(Sb)	mg/kg	10	55	ND	ND
<u>测试项目</u>	<u>单位</u>	MDL	004	<u>005</u>	<u>006</u>
锑(Sb)	mg/kg	10	ND	ND	ND
<u>测试项目</u>	<u>单位</u>	MDL	011	<u>014</u>	<u>015</u>
锑(Sb)	mg/kg	10	ND	ND	ND
测试项目	単位	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-0ES 进行分析

<u>测试项目</u> 锑(Sb) <u>单位 MDL 010 012 013</u> 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/	%	0.01	ND
	68515-48-0			
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	%	0.01	ND
	/68515-49-1			
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



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测试项目	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>002</u>
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/	%	0.01	ND
	68515-48-0			
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	%	0.01	ND
	/68515-49-1			
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/	%	0.01	ND
	68515-48-0			
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	%	0.01	ND
	/68515-49-1			
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

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MDL

004

<u>単位</u>



部業二甲酸丁酯 (DBP) 84-74-2 % 0.003 ND 93 本二甲酸丁酯 (DBP) 85-68-7 % 0.003 ND 93 本二甲酸丁素酯 (DBP) 117-81-7 % 0.003 ND 93 本二甲酸二异壬酯 (DINP) 2853-12-0/ % 0.01 ND 93 本二甲酸二异壬酯 (DINP) 26761-40-0 % 0.01 ND 93 本二甲酸二异子酯 (DINP) 26761-40-0 % 0.01 ND 93 本二甲酸二异丁酯 (DBP) 84-69-5 % 0.003 ND 93 本二甲酸二异丁酯 (DBP) 84-69-5 % 0.003 ND 93 本二甲酸二异丁酯 (DBP) 117-82-8 % 0.003 ND 93 本二甲酸二异丁酯 (DBP) 117-84-0 % 0.01 ND 93 本二甲酸二子三酸 (DINP) 84-75-2 % 0.003 ND 94 本二甲酸二异丁酯 (DBP) 117-81-7 % 0.003 ND 95 本二甲酸二异丁酯 (DBP) 117-81-7 % 0.003 ND 95 本二甲酸二异丁酯 (DBP) 117-81-7 % 0.003 ND 95 本二甲酸二异亚素 (DNP) 117-81-7 % 0.003 ND 95 本二甲酸二异苯基 (DNP) 117-81-9 % 0.003 ND 95 本二甲酸三异苯基 (DNP) 117-81-9 % 0.003 N	检测报告	报告号: SHHL2001000	0671OT-CN	日期: 2020年0	1月14日	页码: 13 / 5	7
## 1	邻苯二甲酸二丁酯(D)	BP)	84	-74-2	%	0. 003	ND
新来二甲酸二戊三基己基) 離 (DEHP)							
部苯二甲酸二异壬酯 (DINP)					%		ND
部末二甲酸二正辛酯 (DNOP) 117-84-0 % 0.003 ND	邻苯二甲酸二异壬酯	(DINP)			%	0.01	ND
## 第二甲酸二异癸酯 (DIDP)			685	15-48-0			
### (68515-49-1	邻苯二甲酸二正辛酯	(DNOP)	117	7-84-0	%	0.003	ND
邻苯二甲酸二正己酯 (DnIP)	邻苯二甲酸二异癸酯	(DIDP)	2676	61-40-0	%	0.01	ND
※本二甲酸二异丁酯 (DIBP)			/68	515-49-1			
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(2-甲氧基乙基)酯(DPP) 605-50-5 % 0.003 ND 邻苯二甲酸二戊克酯 (DPP) 131-18-0 % 0.003 ND 邻苯二甲酸二戊基异戊基酯(nPiPP) 776297-69-9 % 0.003 ND 邻苯二甲酸二戊基异戊基酯 (DHNUP) 68515-42-4 % 0.01 ND 柳江二甲酸二 (C-(3) 交链烷基酯 (DHP) 71888-89-6 % 0.01 ND 加工二甲酸二(5、安链烷基酯 (DHP) 71888-89-6 % 0.01 ND 柳江三甲酸二丁酉 (DBP) 84-77-06-0 % 0.01 ND 邻苯二甲酸二丁酯 (DBP) 84-74-2 % 0.003 ND 邻苯二甲酸二苄酯 (BBP) 85-68-7 % 0.003 ND 邻苯二甲酸二异壬酯 (DINP) 28553-12-0/ % 0.001 ND 邻苯二甲酸二异子酯 (DINP) 26761-40-0 % 0.01 ND 邻苯二甲酸二异异醇 (DIDP) 68515-49-1 % 0.001 ND 邻苯二甲酸二异丁酯 (DIBP) 84-69-5 % 0.003 ND 邻苯二甲酸二异戊酯 (DHP) 68515-50-4 % 0.003 ND 邻苯二甲酸二异戊酯 (DHP) 117-82-8 % 0.003 ND 邻苯二甲酸二异戊酯	邻苯二甲酸二(支链与	写直链) 己基酯(DHP)	685	15-50-4	%	0.01	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP) 117-82-8 % 0.003 ND 邻苯二甲酸三异戊酯 (DiPP) 605-50-5 % 0.003 ND 邻苯二甲酸三戊酯 (DnPP) 131-18-0 % 0.003 ND 邻苯二甲酸三戊基酯 (DPP) 776297-69-9 % 0.003 ND 邻苯二甲酸二戊(7, 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 (DHP) 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 邻苯二甲酸丁香酯 (DBP) 84-74-2 % 0.003 ND 邻苯二甲酸丁青酯 (DBP) 85-68-7 % 0.003 ND 邻苯二甲酸二异壬酯 (DINP) 28553-12-0/ % 0.01 ND 邻苯二甲酸二异壬酯 (DNP) 117-81-7 % 0.003 ND 邻苯二甲酸二异壬酯 (DNP) 117-84-0 % 0.003 ND 邻苯二甲酸二异癸酯 (DIPP) 26761-40-0 % 0.01 ND 邻苯二甲酸二异壬醇 (DNP) 84-75-3 % 0.003 ND 邻苯二甲酸二异戊酯 (DHP) 84-69-5 % 0.003 ND 邻苯二甲酸三异戊酯 (DIPP) 68515-50-4 % 0.003 ND 邻苯二甲酸三异戊酯 (DIPP) 695-50-5 % 0.003 ND 邻苯二甲酸三异戊酯	邻苯二甲酸二正己酯	(DnHP)	84	-75-3	%	0.003	ND
邻苯二甲酸二戌處酯 (DnPP) 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 (DnPP) 776297-69-9 % 0.003 ND 邻苯二酸一(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 (DHP) 71888-89-6 % 0.01 ND 测试项目 CAS NO. 单位 MDL 005 邻苯二甲酸二 (文链与直链) 戊基酯 84-77-06-0 % 0.003 ND 邻苯二甲酸 (DBP) 84-74-2 % 0.003 ND 邻苯二甲酸 (BBP) 85-68-7 % 0.003 ND 邻苯二甲酸 (J 大 基 基 基 基 基 基 基 基 基 基 基 基 基 基 基 基 基 基	邻苯二甲酸二异丁酯	(DIBP)	84	-69-5	%	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 邻苯二酸一二(7,09,C11)烷基酯 (DHNUP) 68515-42-4 % 0.01 ND 邻苯二甲酸二 C6-C8 支链烷基酯 (DHP) 71888-89-6 % 0.01 ND 则式项目 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 邻苯二甲酸二乌乙基己基)酯 (DEHP) 117-81-7 % 0.003 ND 邻苯二甲酸二异子酯 (DINP) 28553-12-0/ % 0.01 ND 邻苯二甲酸二异子酯 (DINP) 28753-12-0/ % 0.01 ND 邻苯二甲酸二异子酯 (DINP) 26761-40-0 % 0.01 ND 邻苯二甲酸二异癸酯 (DIDP) 68515-49-1 % 0.01 ND 邻苯二甲酸二异子酯 (DIRP) 84-75-3 % 0.003 ND 邻苯二甲酸二异丁酯 (DIBP) 84-69-5 % 0.003 ND 邻苯二甲酸二异戊酯 (DiPP) 605-50-5 % 0.003 ND 邻苯二甲酸二异戊酯 (DiPP) 117-82-8 % 0.003 ND 邻苯二甲酸二异戊酯 (DiPP) 605-50-5 % 0.003 ND 邻苯二甲酸二戊基 及	邻苯二甲酸二(2-甲氧	(基乙基)酯(DMEP)	117	7-82-8	%	0.003	ND
邻苯二甲酸正戊基异戊基酯 (DHNUP) 776297-69-9 % 0.003 ND 邻苯二酸-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 (DHP) 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 005 邻苯二甲酸二丁酯 (DBP) 84-74-2 % 0.003 ND 邻苯二甲酸二丁酯 (DBP) 85-68-7 % 0.003 ND 邻苯二甲酸二异壬酯 (DINP) 28553-12-0/ % 0.003 ND 邻苯二甲酸二异壬酯 (DINP) 28553-12-0/ % 0.01 ND 邻苯二甲酸二异壬酯 (DNOP) 117-84-0 % 0.003 ND 邻苯二甲酸二异癸酯 (DIDP) 26761-40-0 % 0.01 ND 邻苯二甲酸二异异酯 (DHP) 68515-50-4 % 0.003 ND 邻苯二甲酸二甲甲二甲酸二甲酯 (DHP) 84-75-3 % 0.003 ND 邻苯二甲酸二乌 (之甲氧基乙基)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 邻苯二甲酸二戊醛 (DnPP) 776297-69-9 % 0.003 ND	邻苯二甲酸二异戊酯	(DiPP)	608	5-50-5	%	0.003	ND
邻苯二酸-二(C7, C9, C11) 烷基酯 (DHNUP)							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 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/ % 0.01 ND 邻苯二甲酸二异壬酯 (DINP) 117-84-0 % 0.003 ND 邻苯二甲酸二异癸酯 (DIDP) 26761-40-0 % 0.01 ND 邻苯二甲酸二二异醛的 (DhPP) 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(2-甲氧基乙基)酯 (DMEP) 117-82-8 % 0.003 ND 邻苯二甲酸二戊酯 (DnPP) 131-18-0 % 0.003 ND 邻苯二甲酸二戊酯 (DnPP) 131-18-0 % 0.003 ND 邻苯二甲酸二戊糖 (DIMP) 68515-42-4 % 0.01 ND 邻苯二甲酸二戊糖 (DIMP) 776297-69-9 % 0.003 ND 邻苯二甲酸二 (C			7762	97-69-9			ND
1,2-苯二酸-二(支链与直链)戊基酯 84777-06-0 % 0.01 ND 例は项目			685	15-42-4	%	0.01	ND
捌试项目 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/ % 0.001 ND 邻苯二甲酸二异壬酯 (DNOP) 117-84-0 % 0.003 ND 邻苯二甲酸二异癸酯 (DIDP) 26761-40-0 % 0.01 ND 邻苯二甲酸二(支链与直链)己基酯 (DHP) 68515-49-1 % 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 (PPP) 605-50-5 % 0.003 ND 邻苯二甲酸正戊酯 (DnPP) 131-18-0 % 0.003 ND 邻苯二甲酸正戊基异戊基酯 (DHNUP) 68515-42-4 % 0.01 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 (左6-08 支链烷基酯 (DHNUP) 71888-89-6 % 0.01 ND 柳试项目 CAS NO. 单位 MDL 006					%		ND
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/ % 0.01 ND 邻苯二甲酸二异壬酯 (DNOP) 117-84-0 % 0.003 ND 邻苯二甲酸二异癸酯 (DIDP) 26761-40-0 % 0.01 ND 邻苯二甲酸二异癸酯 (DHP) 68515-49-1 % 0.003 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 邻苯二甲酸二异戊酯 (DiPP) 117-82-8 % 0.003 ND 邻苯二甲酸二戊基 (DnPP) 131-18-0 % 0.003 ND 邻苯二甲酸正戊基 异戊基酯 (DHPP) 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 (左6-C8 支链烷基酯 (DHP) 71888-89-6 % 0.01 ND 测试项目 CAS NO. 单位 MDL 006	1,2-苯二酸-二(支链	与直链)戊基酯	847	77-06-0	%	0. 01	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/ % 0.01 ND 邻苯二甲酸二异壬酯 (DNOP) 117-84-0 % 0.003 ND 邻苯二甲酸二异癸酯 (DIDP) 26761-40-0 % 0.01 ND 邻苯二甲酸二异癸酯 (DHP) 68515-49-1 % 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 (DHNUP) 68515-42-4 % 0.01 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 (DHNUP) 68515-42-4 % 0.01 ND 邻苯二甲酸二 (支链与直链) 戊基酯 84777-06-0 % 0.01 ND 测试项目 CAS NO. 单位 MDL 006	测试项目		<u>C</u>	AS NO.	<u>单位</u>	<u>MDL</u>	<u>005</u>
邻苯二甲酸二异壬酯 (DINP) 117-81-7 % 0.003 ND 邻苯二甲酸二异壬酯 (DINP) 28553-12-0/ % 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 % 0.01 ND 邻苯二甲酸二异癸酯 (DIPP) 68515-49-1 % 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 邻苯二甲酸正戊酯 (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 小工工程 1,2-苯二酸-二(支链与直链) 戊基酯 84777-06-0 % 0.01 ND 沙式项目 1,2-苯二酸-二(支链与直链) 戊基酯 84777-06-0 % 0.01 ND	邻苯二甲酸二丁酯(D)	BP)	84	-74-2	%	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 % 0.01 ND 邻苯二甲酸二异癸酯 (DIDP) 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 (DHP) 71888-89-6 % 0.01 ND 小之一苯二酸一二 (支链与直链) 戊基酯 84777-06-0 % 0.01 ND 测试项目 CAS NO. 单位 MDL 0.06	邻苯二甲酸丁苄酯(BBP)	85	-68-7	%	0.003	ND
117-84-0	邻苯二甲酸二(2-乙基	基己基)酯(DEHP)	117	7-81-7	%	0.003	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 % 0.01 ND 邻苯二甲酸二(支链与直链) 己基酯 (DHP) 68515-49-1 % 0.01 ND 邻苯二甲酸二(支链与直链) 己基酯 (DHP) 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 邻苯二甲酸二戊基异戊基酯 (nPiPP) 776297-69-9 % 0.003 ND 邻苯二酸一二(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 小人二苯二酸-二(支链与直链) 戊基酯 84777-06-0 % 0.01 ND 测试项目 CAS NO. 单位 MDL 006	邻苯二甲酸二异壬酯	(DINP)	2855	3-12-0/	%	0.01	ND
邻苯二甲酸二异癸酯 (DIDP) 26761-40-0			685	15-48-0			
***********************************			117	7-84-0	%		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 006	邻苯二甲酸二异癸酯	(DIDP)	2676	61-40-0	%	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 邻苯二甲酸正戊酯 (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 邻苯二酸一二(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 006			/68	515-49-1			
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 邻苯二甲酸正戊酯 (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 006							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 006							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 006							
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 006							
邻苯二甲酸正戊基异戊基酯 (nPiPP) 776297-69-9 % 0.003 ND 邻苯二酸-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 006							
邻苯二酸-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 006					%		
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 006							
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 006							
<u>测试项目</u> <u>CAS NO.</u> <u>单位</u> <u>MDL</u> <u>006</u>							
	1,2-苯二酸-二(支链	与直链)戊基酯	847	77-06-0	%	0. 01	ND
	测试项目		C	AS NO.	单位	MDI.	006
		BP)					



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检测报告	报告号: SHHL2001000	0671OT-CN	日期: 2020年0	1月14日	页码: 14 / 5	57
邻苯二甲酸丁苄酯(I	RRP)	85	-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基			7-81-7	%	0.003	ND
邻苯二甲酸二异壬酯			3-12-0/	%	0. 01	ND
WITH THAT IT IN	(2212)		15-48-0	75	0.01	1.2
邻苯二甲酸二正辛酯	(DNOP)		7-84-0	%	0.003	ND
邻苯二甲酸二异癸酯			61-40-0	%	0.01	ND
		/685	515-49-1			
邻苯二甲酸二(支链与	5直链) 己基酯 (DHP)	685	15-50-4	%	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	7-82-8	%	0.003	ND
邻苯二甲酸二异戊酯	(DiPP)	608	5-50-5	%	0.003	ND
邻苯二甲酸二戊酯(I	OnPP)	131	1-18-0	%	0.003	ND
邻苯二甲酸正戊基异	戊基酯(nPiPP)	7762	97-69-9	%	0.003	ND
邻苯二酸-二(C7, C9, C	C11)烷基酯 (DHNUP)	685	15-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8]	支链烷基酯(DIHP)	7188	88-89-6	%	0.01	ND
1,2-苯二酸-二(支链-	与直链)戊基酯	8477	77-06-0	%	0.01	ND
测试项目		C	AS NO.	单位	MDL	011
邻苯二甲酸二丁酯(DI		84	-74-2	%	0.003	ND
邻苯二甲酸丁苄酯(I		85	-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基	是己基)酯(DEHP)	117	7-81-7	%	0.003	ND
邻苯二甲酸二异壬酯	(DINP)	2855	3-12-0/	%	0.01	ND
		685	15-48-0			
邻苯二甲酸二正辛酯	(DNOP)	117	7-84-0	%	0.003	ND
邻苯二甲酸二异癸酯	(DIDP)	2676	61-40-0	%	0.01	ND
		/68	515-49-1			
邻苯二甲酸二(支链与		685	15-50-4	%	0.01	ND
邻苯二甲酸二正己酯		84	-75-3	%	0.003	ND
邻苯二甲酸二异丁酯			-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧			7-82-8	%	0.003	ND
邻苯二甲酸二异戊酯		608	5-50-5	%	0.003	ND
邻苯二甲酸二戊酯(I		131	1-18-0	%	0.003	ND
邻苯二甲酸正戊基异		7762	97-69-9	%	0.003	ND
邻苯二酸-二(C7, C9, C		685	15-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8 5		7188	88-89-6	%	0.01	ND
1,2-苯二酸-二(支链-	与直链)戊基酯	8477	77-06-0	%	0. 01	ND
测决 语 日			AC NO	出 />	MDI	014
<u>测试项目</u>	/ac		AS NO. -74-2	<u>单位</u> ∞	<u>MDL</u>	014 ND
邻苯二甲酸二丁酯(DI			-74-2 69. 7	%	0.003	ND
邻苯二甲酸丁苄酯(I	DDT)	85	-68-7	%	0.003	ND



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检测报告	报告号: SHHL20010006	710T-CN	日期: 2020年 01	月 14 日	页码: 15 / 57	•
邻苯二甲酸二(2-乙基	t己基)酯 (DFHP)	117	7-81-7	%	0.003	ND
邻苯二甲酸二异壬酯			3-12-0/	%	0.01	ND
(IV) — IX—/ ± III	(2211)		15-48-0	75	0.01	1.2
邻苯二甲酸二正辛酯	(DNOP)		7-84-0	%	0.003	ND
邻苯二甲酸二异癸酯			51-40-0	%	0. 01	ND
No. 1 - 1 BA 21 21 BB	(= == =)		515-49-1			
邻苯二甲酸二(支链与	5直链) 己基酯(DHP)		5-50-4	%	0. 01	ND
邻苯二甲酸二正己酯			-75-3	%	0.003	ND
邻苯二甲酸二异丁酯			-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧			·-82-8	%	0.003	ND
邻苯二甲酸二异戊酯			i-50-5	%	0.003	ND
邻苯二甲酸二戊酯(I			-18-0	%	0.003	ND
邻苯二甲酸正戊基异			97-69-9	%	0.003	ND
邻苯二酸-二(C7, C9, C			5-42-4	%	0. 01	ND
邻苯二甲酸二 C6-C8			88-89-6	%	0. 01	ND
1,2-苯二酸-二(支链-		8477	7-06-0	%	0.01	ND
测试项目		C	C NO	并	MDI	015
<u>则试项目</u> 邻苯二甲酸二丁酯(DI	מכ		<u>AS NO.</u> -74-2	<u>单位</u> %	MDL 0. 003	015
邻苯二甲酸二丁酯(Di 邻苯二甲酸丁苄酯(I			-74-2 -68-7	% %	0.003	ND
邻苯二甲酸丁卡酮 (2-乙基			7–81–7	%	0.003	ND ND
				%	0.003	
邻苯二甲酸二异壬酯	(DINP)		3-12-0/ 15-48-0	%	0. 01	ND
初型一田殿一工立配	(DNOD)		7-84-0	%	0.002	MD
邻苯二甲酸二正辛酯			-84-0 61-40-0		0. 003 0. 01	ND
邻苯二甲酸二异癸酯	(DIDP)		51-40-0 515-49-1	%	0. 01	ND
邻苯二甲酸二(支链与	:古妹) コ甘毗 (DIID)		5-50-4	%	0. 01	ND
邻苯二甲酸二(又链号			-75-3	%	0.003	ND ND
邻苯二甲酸二正二酯			-75-5 -69-5	%	0.003	ND ND
邻苯二甲酸二升 1			7-82-8	/0 %	0.003	ND
邻苯二甲酸二烷 干事			5–50–5	%	0.003	ND
邻苯二甲酸二并及酯 邻苯二甲酸二戊酯(I			-18-0	/0 %	0.003	ND
邻苯二甲酸二戊酯 (1)			97-69-9	/0 %	0.003	ND
邻苯二酸二(C7, C9, (0.003	
邻苯二甲酸二 C6-C8]			5-42-4 88-89-6	% %	0. 01	ND ND
1,2-苯二酸-二(支链-			7-06-0	/0 %	0. 01	ND ND
1,2-4-0-1(义挺-	7.旦、比/人至阳	04//	1 UU-U	70	0. 01	ND
海 1. 子 元 口			C NO	¥ <i>1</i>	MDI	01.0
<u>测试项目</u>	/חב		AS NO.	<u>单位</u>	<u>MDL</u>	<u>016</u>
邻苯二甲酸二丁酯(DI			-74-2	%	0.003	ND
邻苯二甲酸丁苄酯(I	SBP)	85	-68-7	%	0.003	ND



邻苯二甲酸二(2-乙基己基)酯 (DEHP)

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0.003

ND



检测报告 报告号: SHHL2001000671OT-CN 日期: 2020年 01月 14日 页码: 16 / 57 邻苯二甲酸二异壬酯 (DINP) 0.01 28553-12-0/ ND 68515-48-0 邻苯二甲酸二正辛酯 (DNOP) 0.003 117-84-0 % ND 邻苯二甲酸二异癸酯 (DIDP) 26761-40-0 0.01 ND /68515-49-1 邻苯二甲酸二(支链与直链)己基酯(DHP) % 0.01 ND 68515 - 50 - 4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) 0.003 84-69-5 % 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 - 50.003 ND 邻苯二甲酸二戊酯 (DnPP) % 0.003 ND 131-18-0

776297-69-9

68515-42-4

71888-89-6

84777-06-0

CAS NO.

VI PY JY H	<u> </u>			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/	%	0.01	ND
	68515-48-0			
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	%	0.01	ND
	/68515-49-1			
邻苯二甲酸二(支链与直链)己基酯(DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正已酯(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

除非另有说明,此报告结果仅对测试的样品负责。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。



邻苯二甲酸正戊基异戊基酯(nPiPP)

1,2-苯二酸-二(支链与直链)戊基酯

<u>测试项目</u>

邻苯二酸-二(C7, C9, C11)烷基酯 (DHNUP)

邻苯二甲酸二 C6-C8 支链烷基酯 (DIHP)

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单位

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MDL

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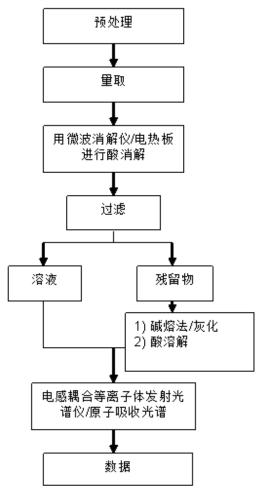


检测报告 报告号: SHHL2001000671OT-CN 日期: 2020年01月14日 页码: 17/57

附件

元素(IEC62321) 湧试流程图

1)样品按照下述流程被完全消解





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t (86) 400 960 9661

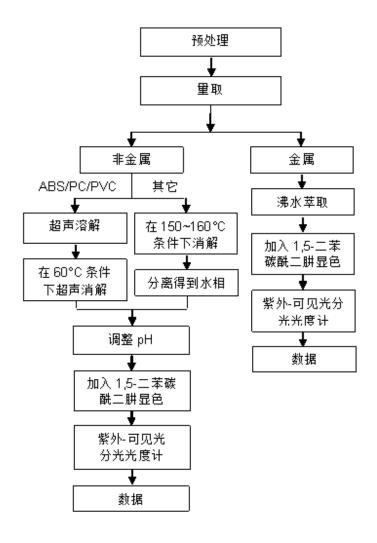
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报告号: SHHL2001000671OT-CN 日期: 2020年01月14日 页码: 18 / 57

附件

六价铬测试流程图





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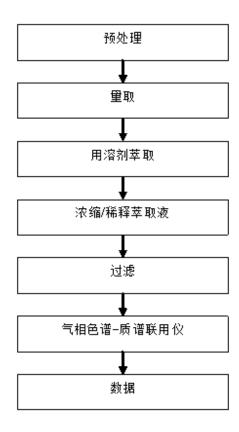
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附件

PBBs/PBDEs 测试流程图





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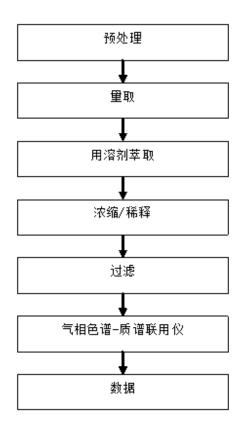
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Phthalates 测试流程图





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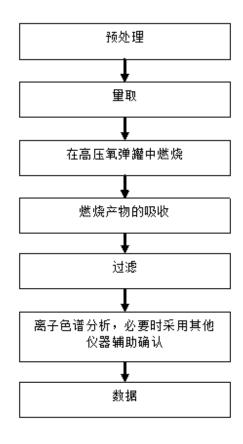


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Halogen(氧弹法)测试流程图





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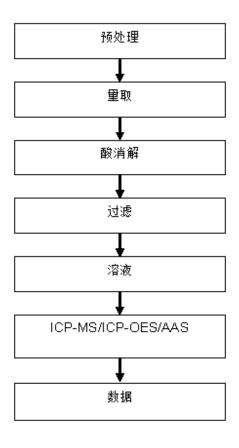
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元素测试流程图





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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-0ES, UV-Vis 和 GC-MS 进行分析。

测试项目	<u>限值</u>	单位	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
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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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(PBDE	s)	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(D	BP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯(BB	P)	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	<u>005</u>	<u>006</u>
镉(Cd)		100	mg/kg	2	ND	<u>003</u> 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(PBDE	s)	1000	mg/kg	_	ND	ND	ND



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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(I	OBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯(BI	BP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基	E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
加比拉 口		阳佑	公 />>	MDI	011	015	
<u>测试项目</u> 镉(Cd)		<u>限值</u> 100	<u>单位</u>	MDL 2	<u>011</u> ND	<u>015</u> ND	
紹(Ca) 铅(Pb)		1000	mg/kg mg/kg	2	ΝD 5	ND ND	
汞(Hg)		1000	mg/kg	2	ND	ND ND	
永(ng) 六价铬 (Cr(VI))		1000	mg/kg	8	ND ND	ND ND	
多溴联苯之和(PBBs)		1000	mg/kg	-	ND	ND ND	
一溴联苯		1000	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 (PBDI	39)	1000	mg/kg	_	ND	ND	
一溴二苯醚	30)	-	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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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_0RG_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-0ES, AAS 和 UV-Vis 进行分析。

测试项目	限值	单位	MDL	<u>007</u>	<u>008</u>	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))▼	_	$\mu\;g/cm^2$	0.10	ND	ND	ND
测试项目	限值	单位	MDL	<u>010</u>	<u>012</u>	<i>013</i>
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))▼	_	$\mu\; g/cm^2$	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))▼	_	$\mu\;g/cm^2$	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:1 258637, 25



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- (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 $0.10~\mu\,g/cm^2$ 与 $0.13~\mu\,g/cm^2$ 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。

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	<u>单位</u>	MDL	<u>001</u>	<u>002</u>	<u>003</u>
氟(F)	mg/kg	50	ND	ND	ND
氯(C1)	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(C1)	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	<u>单位</u>	MDL	<u>011</u>	<u>015</u>	
氣(F)	mg/kg	50	ND	ND	
氯(C1)	mg/kg	50	ND	ND	
溴(Br)	mg/kg	50	ND	ND	
碘(I)	mg/kg	50	ND	ND	



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锑(Sb)

测试方法: 参照 US EPA 方法 3052:1996 测定, 采用 ICP-0ES 进行分析.

<u>测试项目</u>	<u>单位</u>	MDL	<u>001</u>	<u>002</u>	<u>003</u>
锑(Sb)	mg/kg	10	55	ND	ND
<u>测试项目</u>	<u>单位</u>	MDL	<u>004</u>	<u>005</u>	<u>006</u>
锑(Sb)	mg/kg	10	ND	ND	ND
<u>测试项目</u>	<u>单位</u>	MDL	<u>011</u>	<u>015</u>	
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-0ES 进行分析

<u>测试项目</u>	<u>单位</u>	MDL	<u>010</u>	<u>012</u>	<u>013</u>
锑(Sb)	mg/kg	10	ND	ND	ND
<u>测试项目</u> 锑(Sb)	<u>単位</u> mg/kg	MDL 10	<u>014</u> 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	<u>MDL</u>	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/	%	0.01	ND
	68515-48-0			
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	%	0.01	ND
	/68515-49-1			
邻苯二甲酸二(支链与直链)己基酯(DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正已酯(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	5-50-5		%	0. 003	ND
邻苯二甲酸二戊酯(D			-18-0		%	0.003	ND
邻苯二甲酸正戊基异瓜			97-69-9		%	0.003	ND
邻苯二酸-二(C7, C9, C			5-42-4		%	0. 01	ND
邻苯二甲酸二 C6-C8 5			88-89-6		%	0. 01	ND
1,2-苯二酸-二(支链-			77-06-0		%	0. 01	ND
测试项目		CA	AS NO.		单位	MDL	002
邻苯二甲酸二丁酯(DB	P)	·	-74-2		%	0. 003	ND
邻苯二甲酸丁苄酯 (B		85	-68-7		%	0.003	ND
邻苯二甲酸二(2-乙基	己基)酯 (DEHP)	117	7-81-7		%	0.003	ND
邻苯二甲酸二异壬酯	(DINP)	2855	3-12-0/		%	0.01	ND
		685	15-48-0				
邻苯二甲酸二正辛酯	(DNOP)	117	7-84-0		%	0.003	ND
邻苯二甲酸二异癸酯	(DIDP)	2676	51-40-0		%	0.01	ND
		/685	515-49-1				
邻苯二甲酸二(支链与	直链) 己基酯 (DHP)	6851	5-50-4		%	0.01	ND
邻苯二甲酸二正已酯(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	7-82-8		%	0.003	ND
邻苯二甲酸二异戊酯(DiPP)	605	5-50-5		%	0.003	ND
邻苯二甲酸二戊酯(D	nPP)	131	-18-0		%	0.003	ND
邻苯二甲酸正戊基异瓜	戈基酯(nPiPP)	7762	97-69-9		%	0.003	ND
邻苯二酸-二(C7, C9, C	11)烷基酯 (DHNUP)	6851	5-42-4		%	0.01	ND
邻苯二甲酸二 C6-C8 5	と链烷基酯(DIHP)	7188	88-89-6		%	0.01	ND
1,2-苯二酸-二(支链-	ラ直链)戊基酯	8477	77-06-0		%	0. 01	ND
测试项目		<u>C</u> A	AS NO.		单位	MDL	003
邻苯二甲酸二丁酯(DB	P)	84	-74-2		%	0.003	ND
邻苯二甲酸丁苄酯(B	BP)	85	-68-7		%	0.003	ND
邻苯二甲酸二(2-乙基	己基)酯 (DEHP)	117	7-81-7		%	0.003	ND
邻苯二甲酸二异壬酯	(DINP)	2855	3-12-0/		%	0.01	ND
		685	15-48-0				
邻苯二甲酸二正辛酯	(DNOP)	117	7-84-0		%	0.003	ND
邻苯二甲酸二异癸酯	(DIDP)	2676	51-40-0		%	0.01	ND
		/685	515-49-1				
邻苯二甲酸二(支链与	直链) 己基酯(DHP)	6851	5-50-4		%	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	7-82-8		%	0.003	ND
邻苯二甲酸二异戊酯(DiPP)	605	5-50-5		%	0.003	ND
M # - 미 # - 라파 ()	DD \	101	10.0		0/	0 000	MD



邻苯二甲酸二戊酯 (DnPP)

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邻苯二甲酸正戊基异	戊基酯(nPiPP)	7762	97-69-9	%	0.003	ND
邻苯二酸-二(C7, C9,			15-42-4	%	0.01	ND
邻苯二甲酸二 C6-C8		7188	88-89-6	%	0.01	ND
1,2-苯二酸-二(支链	与直链)戊基酯	847	77-06-0	%	0.01	ND
测试项目			AS NO.	<u>单位</u>	MDL	004
邻苯二甲酸二丁酯(D			-74-2	%	0.003	ND
邻苯二甲酸丁苄酯(-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基			7-81-7	%	0.003	ND
邻苯二甲酸二异壬酯	(DINP)		3-12-0/	%	0.01	ND
			15-48-0			
邻苯二甲酸二正辛酯			7-84-0	%	0.003	ND
邻苯二甲酸二异癸酯	(DIDP)		61-40-0	%	0. 01	ND
			515-49-1			
邻苯二甲酸二(支链与			15-50-4	%	0. 01	ND
邻苯二甲酸二正已酯			-75-3	%	0.003	ND
邻苯二甲酸二异丁酯			-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧			7-82-8	%	0.003	ND
邻苯二甲酸二异戊酯			5-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (1			1-18-0	%	0.003	ND
邻苯二甲酸正戊基异			97-69-9	%	0.003	ND
邻苯二酸-二(C7, C9,			15-42-4	%	0. 01	ND
邻苯二甲酸二 C6-C8			88-89-6	%	0. 01	ND
1,2-苯二酸-二(支链	与直链)戊基酯	847	77-06-0	%	0. 01	ND
测试项目			AS NO.	<u>单位</u>	<u>MDL</u>	<u>005</u>
邻苯二甲酸二丁酯(D			-74-2	%	0.003	ND
邻苯二甲酸丁苄酯(-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基			7-81-7	%	0.003	ND
邻苯二甲酸二异壬酯	(DINP)		3-12-0/ 15-48-0	%	0. 01	ND
邻苯二甲酸二正辛酯	(DNOP)	11'	7-84-0	%	0.003	ND
邻苯二甲酸二异癸酯	(DIDP)	2676	61-40-0	%	0.01	ND
			515-49-1			
邻苯二甲酸二(支链与	ョ直链) 己基酯 (DHP)		15-50-4	%	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			7-82-8	%	0.003	ND
邻苯二甲酸二异戊酯	(DiPP)		5-50-5	%	0.003	ND
邻苯二甲酸二戊酯 (1			1-18-0	%	0.003	ND
邻苯二甲酸正戊基异			97-69-9	%	0.003	ND
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邻苯二酸-二(C7, C9, C11)烷基酯 (DHNUP)

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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/	%	0.01	ND
	68515-48-0			
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	%	0.01	ND
	/68515-49-1			
邻苯二甲酸二(支链与直链)己基酯(DHP)	68515-50-4	%	0.01	ND
邻苯二甲酸二正已酯(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.	<u>单位</u>	<u>MDL</u>	<u>011</u>
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	%	0.01	ND
	/68515-49-1			
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



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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	<u></u> %	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/	%	0.01	ND
	68515-48-0			
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	%	0.01	ND
	/68515-49-1			
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

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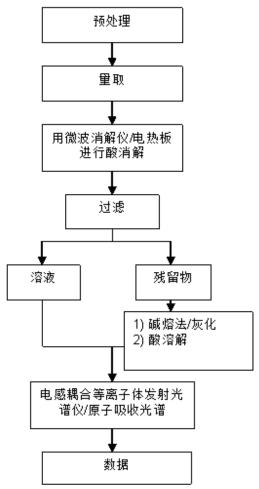


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附件

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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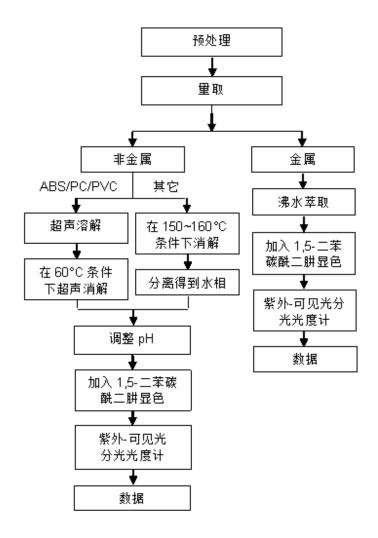
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六价铬测试流程图





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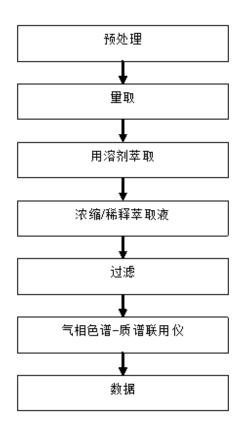
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PBBs/PBDEs 测试流程图





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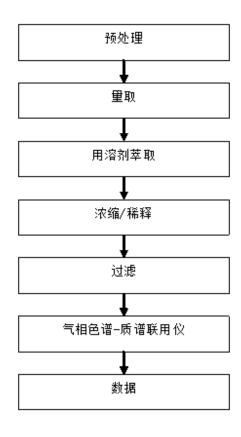
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Phthalates 测试流程图





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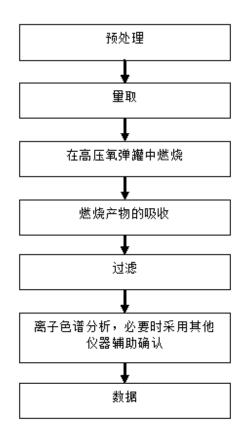


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Halogen(氧弹法)测试流程图





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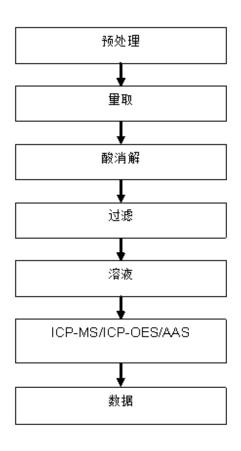
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元素测试流程图



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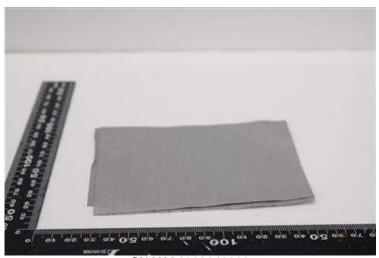


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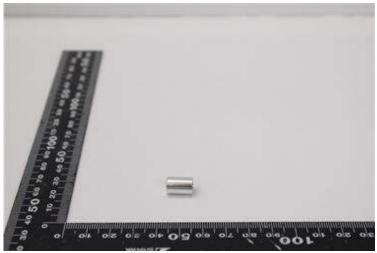
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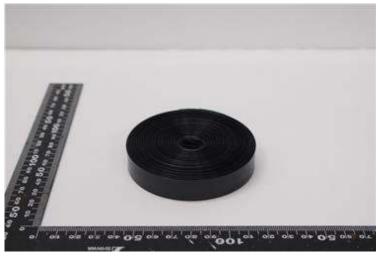
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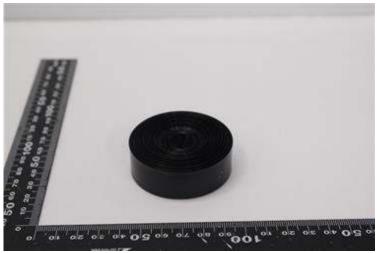
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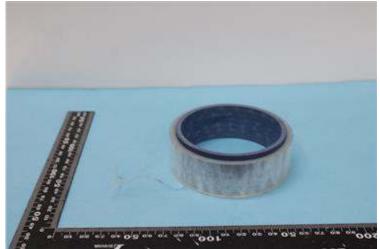
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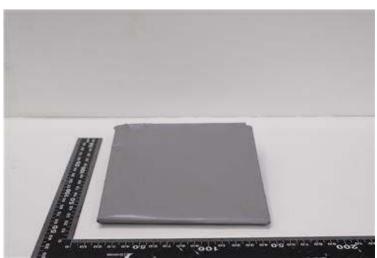
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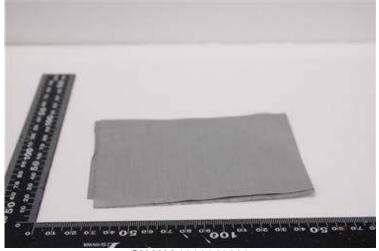
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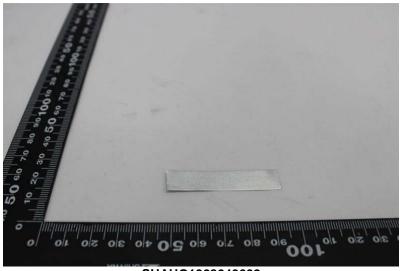
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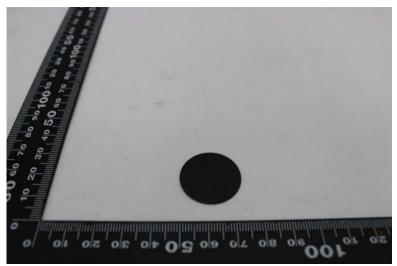
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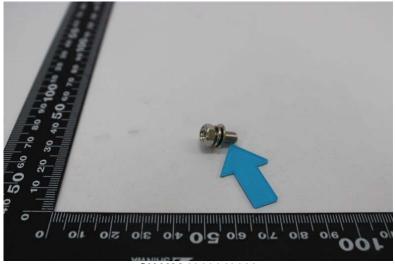
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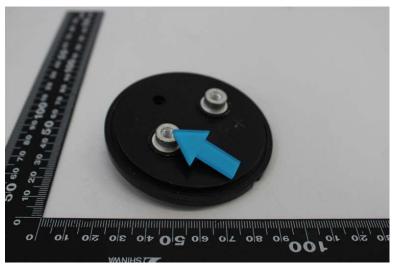
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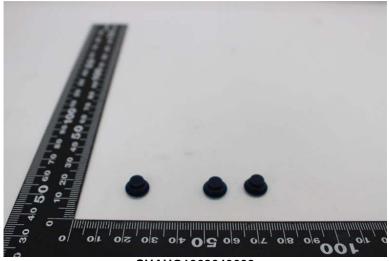
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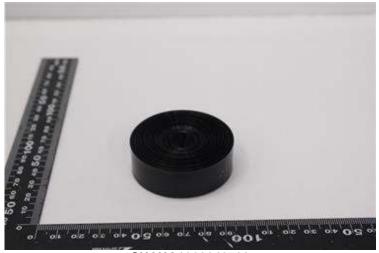
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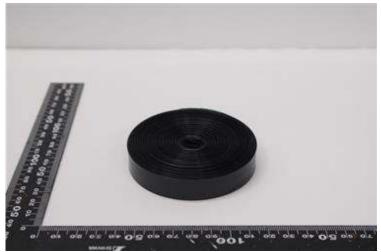
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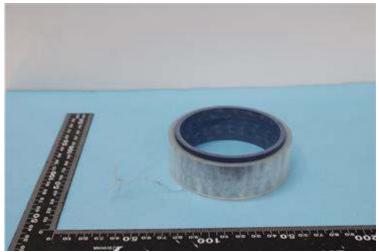
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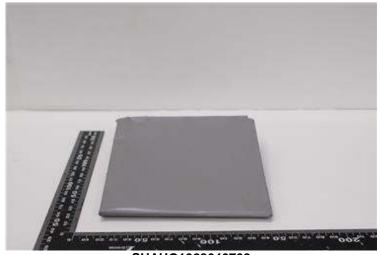


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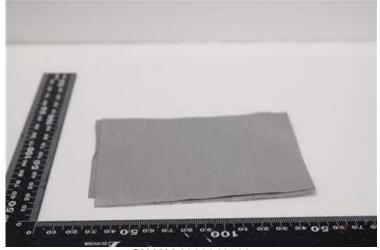
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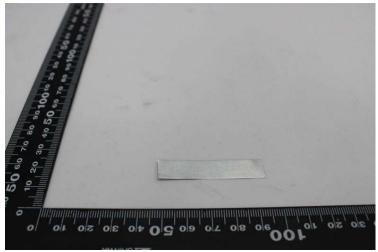
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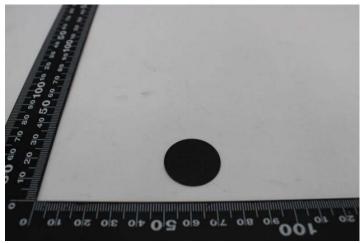


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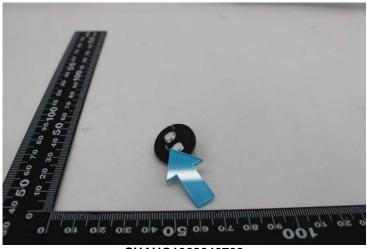
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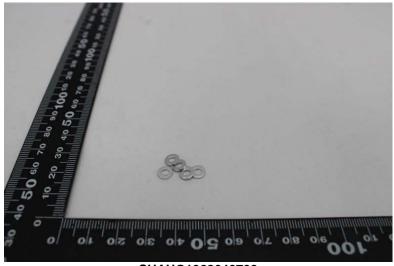
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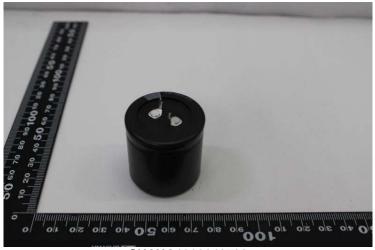
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