

No. CANEC2117725502

日期: 2021年09月28日 第1页,共17页

敬业电子(惠州)有限公司

广东省惠州市惠城区惠风西路82号(平南工业园50号小区)

以下测试之样品是由申请者所提供及确认: 塑胶电容器

SGS工作编号: CP21-051395 - SZ

样品接收日期: 2021年09月22日

测试周期: 2021年09月22日 - 2021年09月28日

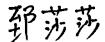
测试要求: 根据客户要求测试 测试方法: 请参见下一页 测试结果: 请参见下一页

结论: 基于所送样品进行的测试,镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯

醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值

要求。

通标标准技术服务有限公司广州分公司 授权签名



Sasa Zhi郅莎莎 批准签署人





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No. CANEC2117725502

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测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	CAN21-177255.001	银色金属(半成品)(被称为"CU線")1#
SN2	CAN21-177255.002	银色金属(半成品) (被称为"锡锌线") 2#
SN3	CAN21-177255.003	银色金属(半成品) (被称为"锌线") 3#
SN4	CAN21-177255.004	银色膜(半成品) (被称为"金属化聚丙烯膜") 4#
SN5	CAN21-177255.005	银色膜(半成品) (被称为"金属化聚脂膜") 5#
SN6	CAN21-177255.006	银色油墨(半成品) (被称为"银色UV油墨") 6#
SN7	CAN21-177255.007	黑色油墨(半成品)(被称为"黑色UV油墨") 7#
SN8	CAN21-177255.008	带粘性的灰色/黑色胶带(半成品) (被称为"3M胶带") 8#
SN9	CAN21-177255.009	带粘性的黑色胶带(半成品)(被称为"黑色玛拉胶带") 9#
SN10	CAN21-177255.010	带粘性的黄色胶带(半成品) (被称为"黄色玛拉胶带") 10#
SN11	CAN21-177255.011	带粘性的白色胶带(半成品) (被称为"白色玛拉胶带") 11#
SN12	CAN21-177255.012	白色物料(半成品) (被称为"白色环氧树脂") 12#
SN13	CAN21-177255.013	黄色物料(半成品) (被称为"黄色环氧树脂") 13#
SN14	CAN21-177255.014	黑色物料(半成品) (被称为"黑色环氧树脂") 14#
SN15	CAN21-177255.015	棕色物料(半成品) (被称为"棕色环氧树脂") 15#
SN16	CAN21-177255.016	黄色塑胶粒(半成品) (被称为"塞珠") 16#

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

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

测试方法: 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析.

<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1,000	mg/kg	2	ND	ND	ND
汞 (Hg)	1,000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))	1,000	mg/kg	8	ND	ND	ND
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND	ND	ND



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测试报告	No. CANEC2117725502		日期: 2	日期: 2021年09月28日		第3页,共17页	
测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>	
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)	1,000	mg/kg	-	ND	ND	ND	
一溴二苯醚	-	mg/kg	5	ND	ND	ND	
二溴二苯醚	-	mg/kg	5	ND	ND	ND	
三溴二苯醚	-	mg/kg	5	ND	ND	ND	
四溴二苯醚	-	mg/kg	5	ND	ND	ND	
五溴二苯醚	-	mg/kg	5	ND	ND	ND	
六溴二苯醚	-	mg/kg	5	ND	ND	ND	
七溴二苯醚	-	mg/kg	5	ND	ND	ND	
八溴二苯醚	-	mg/kg	5	ND	ND	ND	
九溴二苯醚	-	mg/kg	5	ND	ND	ND	
十溴二苯醚	-	mg/kg	5	ND	ND	ND	
邻苯二甲酸二丁酯 (DBP)	1,000	mg/kg	50	ND	ND	ND	
邻苯二甲酸丁苄酯(BBP)	1,000	mg/kg	50	ND	ND	ND	
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1,000	mg/kg	50	ND	ND	ND	
邻苯二甲酸二异丁酯(DIBP)	1,000	mg/kg	50	ND	ND	ND	
<u>测试项目</u>	<u>限值</u>	<u>单位</u>	MDL	<u>007</u>	<u>008</u>	<u>009</u>	
镉 (Cd)	100	mg/kg	2	ND	ND	ND	
铅 (Pb)	1,000	mg/kg	2	ND	ND	ND	
汞 (Hg)	1,000	mg/kg	2	ND	ND	ND	
六价铬(Cr(VI))	1,000	mg/kg	8	ND	ND	ND	
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND	ND	ND	
一溴联苯	-	mg/kg	5	ND	ND	ND	
二溴联苯	-	mg/kg	5	ND	ND	ND	
三溴联苯	-	mg/kg	5	ND	ND	ND	
四溴联苯	-	mg/kg	5	ND	ND	ND	
五溴联苯	-	mg/kg	5	ND	ND	ND	
六溴联苯	-	mg/kg	5	ND	ND	ND	
七溴联苯	-	mg/kg	5	ND	ND	ND	



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测试项目	<u>限值</u>	<u>单位</u>	MDL	<u>007</u>	<i>008</i>	<u>009</u>	
八溴联苯	-	mg/kg	5	ND	ND	ND	
九溴联苯	-	mg/kg	5	ND	ND	ND	
十溴联苯	-	mg/kg	5	ND	ND	ND	
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND	ND	ND	
一溴二苯醚	-	mg/kg	5	ND	ND	ND	
二溴二苯醚	-	mg/kg	5	ND	ND	ND	
三溴二苯醚	-	mg/kg	5	ND	ND	ND	
四溴二苯醚	-	mg/kg	5	ND	ND	ND	
五溴二苯醚	-	mg/kg	5	ND	ND	ND	
六溴二苯醚	-	mg/kg	5	ND	ND	ND	
七溴二苯醚	-	mg/kg	5	ND	ND	ND	
八溴二苯醚	-	mg/kg	5	ND	ND	ND	
九溴二苯醚	-	mg/kg	5	ND	ND	ND	
十溴二苯醚	-	mg/kg	5	ND	ND	ND	
邻苯二甲酸二丁酯 (DBP)	1,000	mg/kg	50	ND	ND	ND	
邻苯二甲酸丁苄酯(BBP)	1,000	mg/kg	50	ND	ND	ND	
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1,000	mg/kg	50	ND	ND	ND	
邻苯二甲酸二异丁酯(DIBP)	1,000	mg/kg	50	ND	ND	ND	
<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>	
镉 (Cd)	100	mg/kg	2	ND	ND	ND	
铅 (Pb)	1,000	mg/kg	2	ND	ND	ND	
汞 (Hg)	1,000	mg/kg	2	ND	ND	ND	
六价铬(Cr(VI))	1,000	mg/kg	8	ND	ND	ND	
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND	ND	ND	
一溴联苯	-	mg/kg	5	ND	ND	ND	
二溴联苯	-	mg/kg	5	ND	ND	ND	
三溴联苯	-	mg/kg	5	ND	ND	ND	
四溴联苯	-	mg/kg	5	ND	ND	ND	
五溴联苯	-	mg/kg	5	ND	ND	ND	
六溴联苯	-	mg/kg	5	ND	ND	ND	
七溴联苯	-	mg/kg	5	ND	ND	ND	
八溴联苯	-	mg/kg	5	ND	ND	ND	
九溴联苯	-	mg/kg	5	ND	ND	ND	
十溴联苯	-	mg/kg	5	ND	ND	ND	
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND	ND	ND	
一溴二苯醚	-	mg/kg	5	ND	ND	ND	
二溴二苯醚	-	mg/kg	5	ND	ND	ND	
三溴二苯醚	-	mg/kg	5	ND	ND	ND	



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<u>测试项目</u>	<u>限值</u>	单位	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>	
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)	1,000	mg/kg	50	ND	ND	ND	
邻苯二甲酸丁苄酯(BBP)	1,000	mg/kg	50	ND	ND	ND	
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1,000	mg/kg	50	ND	ND	ND	
邻苯二甲酸二异丁酯(DIBP)	1,000	mg/kg	50	ND	ND	ND	
<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>	
镉 (Cd)	100	mg/kg	2	ND	ND	ND	
铅 (Pb)	1,000	mg/kg	2	ND	ND	ND	
汞 (Hg)	1,000	mg/kg	2	ND	ND	ND	
六价铬(Cr(VI))	1,000	mg/kg	8	ND	ND	ND	
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND	ND	ND	
一溴联苯	-	mg/kg	5	ND	ND	ND	
二溴联苯	-	mg/kg	5	ND	ND	ND	
三溴联苯	-	mg/kg	5	ND	ND	ND	
四溴联苯	-	mg/kg	5	ND	ND	ND	
五溴联苯	-	mg/kg	5	ND	ND	ND	
六溴联苯	-	mg/kg	5	ND	ND	ND	
七溴联苯	-	mg/kg	5	ND	ND	ND	
八溴联苯	-	mg/kg	5	ND	ND	ND	
九溴联苯	-	mg/kg	5	ND	ND	ND	
十溴联苯	-	mg/kg	5	ND	ND	ND	
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND	ND	ND	
一溴二苯醚	-	mg/kg	5	ND	ND	ND	
二溴二苯醚	-	mg/kg	5	ND	ND	ND	
三溴二苯醚	-	mg/kg	5	ND	ND	ND	
四溴二苯醚	-	mg/kg	5	ND	ND	ND	
五溴二苯醚	-	mg/kg	5	ND	ND	ND	
六溴二苯醚	-	mg/kg	5	ND	ND	ND	
七溴二苯醚	-	mg/kg	5	ND	ND	ND	
八溴二苯醚	-	mg/kg	5	ND	ND	ND	
九溴二苯醚	-	mg/kg	5	ND	ND	ND	
十溴二苯醚	-	mg/kg	5	ND	ND	ND	



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<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>
邻苯二甲酸二丁酯 (DBP)	1,000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯(BBP)	1,000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1,000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯(DIBP)	1,000	mg/kg	50	ND	ND	ND
<u>测试项目</u>	<u>限值</u>	<u>单位</u>	MDL	<u>016</u>		
镉 (Cd)	100	mg/kg	2	ND		
铅 (Pb)	1,000	mg/kg	2	13		
汞 (Hg)	1,000	mg/kg	2	ND		
六价铬(Cr(VI))	1,000	mg/kg	8	ND		
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND		
一溴联苯	-	mg/kg	5	ND		
二溴联苯	-	mg/kg	5	ND		
三溴联苯	-	mg/kg	5	ND		
四溴联苯	-	mg/kg	5	ND		
五溴联苯	-	mg/kg	5	ND		
六溴联苯	-	mg/kg	5	ND		
七溴联苯	-	mg/kg	5	ND		
八溴联苯	-	mg/kg	5	ND		
九溴联苯	-	mg/kg	5	ND		
十溴联苯	-	mg/kg	5	ND		
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND		
一溴二苯醚	-	mg/kg	5	ND		
二溴二苯醚	-	mg/kg	5	ND		
三溴二苯醚	-	mg/kg	5	ND		
四溴二苯醚	-	mg/kg	5	ND		
五溴二苯醚	-	mg/kg	5	ND		
六溴二苯醚	-	mg/kg	5	ND		
七溴二苯醚	-	mg/kg	5	ND		
八溴二苯醚	-	mg/kg	5	ND		
九溴二苯醚	-	mg/kg	5	ND		
十溴二苯醚	-	mg/kg	5	ND		
邻苯二甲酸二丁酯 (DBP)	1,000	mg/kg	50	ND		
邻苯二甲酸丁苄酯(BBP)	1,000	mg/kg	50	ND		
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1,000	mg/kg	50	ND		
邻苯二甲酸二异丁酯(DIBP)	1,000	mg/kg	50	ND		

备注:

(1)最大允许极限值引用自RoHS指令(EU) 2015/863。



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(2) IEC 62321 系列等同于 EN 62321 系列

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

(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。

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

测试方法: 参考IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, 采用 ICP-OES 和 UV-Vis 进行分析.

测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1,000	mg/kg	2	ND	35	26
汞 (Hg)	1,000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))▼	_	μg/cm²	0.10	ND	ND	ND

备注:

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- (2) IEC 62321系列等同于 EN 62321系列

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- (3) ▼=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。

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。



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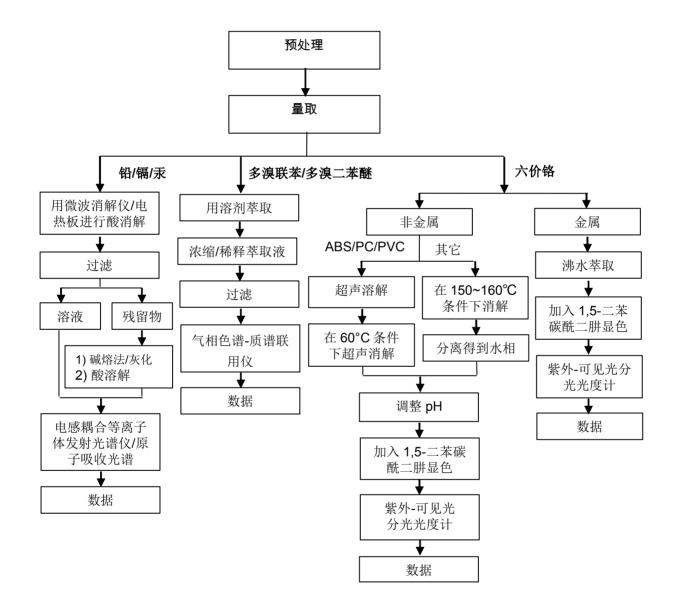
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附件

Pb/Cd/Hg/Cr6+/PBBs/PBDEs 测试流程图

1) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚测试除外)。





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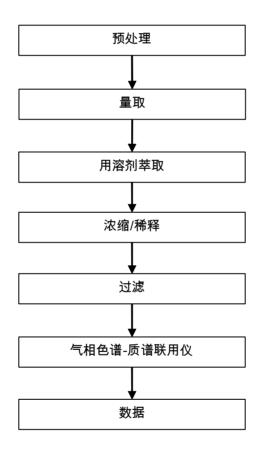


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附件

Phthalates 测试流程图





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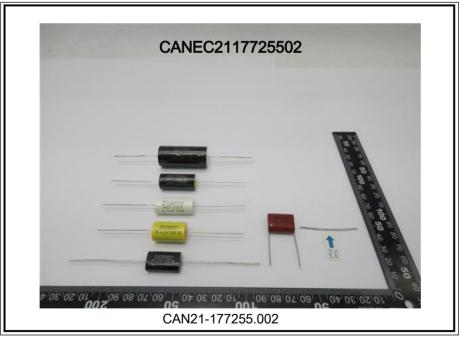


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