

No. SHAEC1315692602

日期: 2013年08月12日

第1页,共9页

武汉伟多达工贸有限公司 武汉市武昌区武珞路442号中南国际城A2座2701室

以下测试之样品是由申请者所提供及确认:多米诺油墨

SGS工作编号: SP13-023557 - SH

型号: 5157

成分: 丁酮,丙烯酸树脂,染料

型号: IR-270BK

样品接收日期: 2013年08月08日

测试周期: 2013年08月08日 - 2013年08月12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(PBB)、多溴二苯

醚(PBDE)的测试结果符合欧盟RoHS指令2002/95/EC的重订指令2011/65/EU附

录Ⅱ的限值要求.

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JJ Fan 范晶捷 批准签署人

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测试报告 No. SHAEC1315692602 日期: 2013年08月12日 第2页,共9页

测试结果:

测试样品描述:

样品编号SGS样品ID描述1SHA13-156926.001黑色液体

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<u>指令2011/65/EU</u>

测试方法: (1) 参考IEC 62321-5:2013, 用ICP-OES测定镉的含量

(2) 参考IEC 62321-5:2013, 用ICP-OES测定铅的含量

(3) 参考IEC 62321-4:2013, 用ICP-OES测定汞的含量

(4) 参考IEC 62321:2008, 用紫外-可见分光光度计比色法测定六价铬的含量

(5) 参考IEC 62321:2008, 用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚) 的含量

<u>测试项目</u>	限值	<u>单位</u>	<u>MDL</u>	<u>001</u>
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞(Hg)	1000	mg/kg	2	ND
六价铬(CrVI)	1000	mg/kg	2	88
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND

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测试报告	No. SHAEC1315692602	日期: 2013年08月12日	第3页,共9页

<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>
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

备注:

(1) 最大允许极限值引用自指令2011/65/EU附录II.

卤素

测试方法: 参照EN 14582:2007方法测定, 采用IC进行分析.

<u>测试项目</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>
氟 (F)	mg/kg	50	ND
氯(CI)	mg/kg	50	ND
溴(Br)	mg/kg	50	ND
碘 (l)	mg/kg	50	ND

邻苯二甲酸盐(或酯)

测试方法: 参考EN 14372: 2004的方法, 采用GC-MS分析邻苯二甲酸盐(或酯)含量.

<u>测试项目</u> 邻苯二甲酸二丁酯(DBP)	<u>CAS NO.</u> 84-74-2	<u>单位</u> %	MDL 0.003	<u>001</u> ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基已基) 酯 (DEHP)	117-81-7	%	0.003	ND

备注:

(1) 参考信息: RoHS指令2002/95/EC的重订指令2011/65/EU:

邻苯二甲酸二(2-乙基已基)酯(DEHP), 邻苯二甲酸丁苄酯 (BBP)和邻苯二甲酸二丁酯(DBP) 被列为需优先进行风险评估和考虑进行限制的物质。

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No. SHAEC1315692602

日期: 2013年08月12日

第4页.共9页

六溴环十二烷(HBCDD)

测试方法: 参考IEC 62321:2008, 采用GC-MS分析六溴环十二烷含量.

 测试项目
 单位
 MDL
 001

 六溴环十二烷(HBCDD)
 mg/kg
 10
 ND

备注:

(1) 参考信息: RoHS指令2002/95/EC的重订指令2011/65/EU: 六溴环十二烷(HBCDD) 被列为需优先进行风险评估和考虑进行限制的物质.

备注: 所示结果为湿样品总重量中的含量

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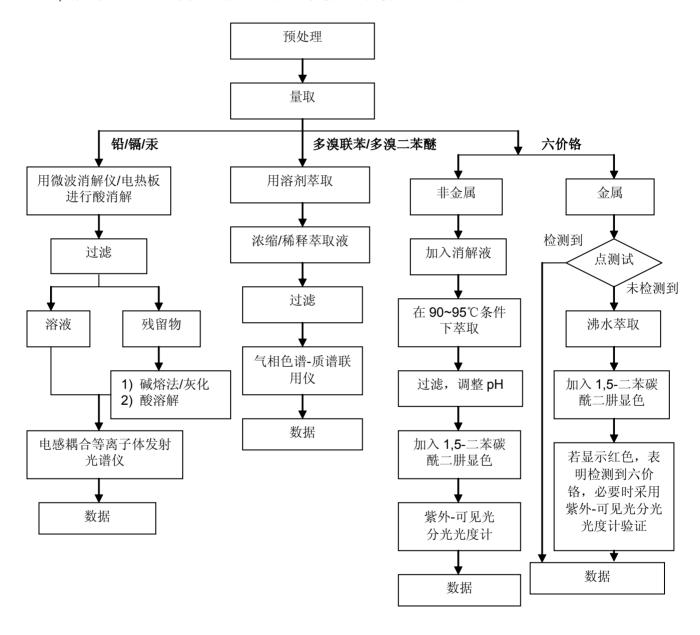
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第5页.共9页

附件

RoHS 测试流程图

- 1) 分析人员: 施青/汪红新/王晓艳/徐刚
- 2) 项目负责人: 张春华/徐亮/黄婷
- 3) 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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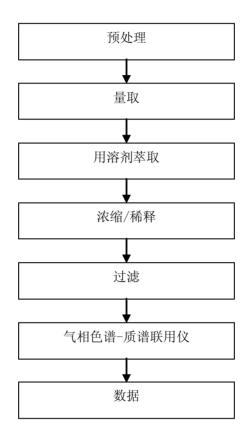


No. SHAEC1315692602

日期: 2013年08月12日 第6页,共9页

Phthalates 测试流程图

分析人员: 姚霞飞
 项目负责人: 马永存



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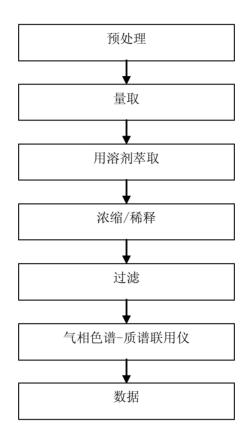


No. SHAEC1315692602

日期: 2013年08月12日 第7页,共9页

HBCDD 测试流程图

分析人员: 徐刚
 项目负责人: 黄婷



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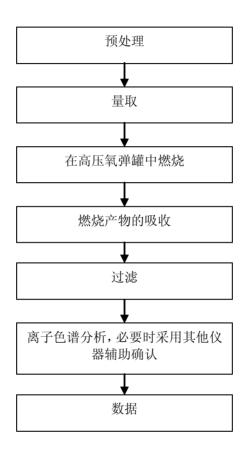


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日期: 2013年08月12日 第8页,共9页

Halogen(氧弹法)测试流程图

分析人员: 印字
 项目负责人: 李丹



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