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检测报告

编号: ESZ2401110087C00002R

日期: 2024年01月17日

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委托单位: 漯河市罗弗文具制造有限公司

地址: 河南省漯河市经济技术开发区轻工食品工业园燕山路56号

以下检测之样品及样品信息是由申请者提供并确认

样品名称: TPR 材质橡皮擦

型号: /

接收日期: 2024年01月11日

检测周期: 2024年01月11日~2024年01月17日

检测概要:

检测项目

特定元素的迁移量

邻苯二甲酸酯

依据客户要求, 按照 QB/T 2309-2020 《橡皮擦》进行指定项目测试

结论

符合

符合

符合

注: 符合 (Pass); 不符合 (Fail); 不评价或仅提供检测结果 (N/A)



苏州市信测标准技术服务有限公司

谨代表

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授权签字人

2024年01月17日

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样品描述(以下检测之样品及样品信息是由申请者提供并确认)

样品序号	样品编号	数量
01	E2401110087-02	4pcs

检测结果汇总

1.特定元素的迁移

1.1 检测方法

检测项目	测试方法
特定元素的迁移	EN 71-3:2019+A1:2021

1.2 检测设备

设备名称	厂家	型号
ICP-OES	Agilent	5800
LC-ICP-MS	Agilent	ICP-MS: 7900 LC :1260
GC-MS	SHIMADZU	QP2010 Ultra

1.3 检测结果

检测项目	结果(mg/kg)	MDL (mg/kg)	限值 (mg/kg)
	01		III类
铝(Al)	N.D.	50	28130
锑(Sb)	N.D.	10	560
砷(As)	N.D.	10	47
钡(Ba)	N.D.	50	18750
硼(B)	N.D.	50	15000
镉(Cd)	N.D.	5	17
三价铬(Cr ³⁺)	N.D.	1	460
六价铬(Cr ⁶⁺)	N.D.	0.01	0.053
钴(Co)	N.D.	10	130

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检测项目	结果(mg/kg)	MDL (mg/kg)	限值 (mg/kg)
	01		III类
铜(Cu)	N.D.	50	7700
铅(Pb)	N.D.	5	23
锰(Mn)	N.D.	50	15000
汞(Hg)	N.D.	10	94
镍(Ni)	N.D.	10	930
硒(Se)	N.D.	10	460
锶(Sr)	N.D.	50	56000
锡(Sn)	N.D.	3	180000
有机锡*	N.D.	/	12
锌(Zn)	N.D.	50	46000

备注 Note

- 1) 未检测到 (小于 MDL)
- 2) MDL= 方法检出限
- 3) 1%=10000mg/kg
- 4) * = 溶出的有机锡是以溶出的锡计, 当检测到锡时, 必须进行进一步的验证试验

1.4 特定元素的迁移限值要求 (依照 EN 71-3:2019+A1:2021)

检测项目	限值(mg/kg)		
	I类	II类	III类
铝(Al)	2250	560	28130
锑(Sb)	45	11.3	560
砷(As)	3.8	0.9	47
钡(Ba)	1500	375	18750
硼(B)	1200	300	15000
镉(Cd)	1.3	0.3	17
三价铬(Cr ³⁺)	37.5	9.4	460

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检测项目	限值(mg/kg)		
	I类	II类	III类
六价铬(Cr ⁶⁺)	0.02	0.005	0.053
钴(Co)	10.5	2.6	130
铜(Cu)	622.5	156	7700
铅(Pb)	2.0	0.5	23
锰(Mn)	1200	300	15000
汞(Hg)	7.5	1.9	94
镍(Ni)	75	18.8	930
硒(Se)	37.5	9.4	460
锶(Sr)	4500	1125	56000
锡(Sn)	15000	3750	180000
有机锡	0.9	0.2	12
锌(Zn)	3750	938	46000

说明:

I类: 干燥、易碎、粉末状或柔韧的玩具材料;

II类: 液性或粘性玩具材料;

III类: 可刮取的玩具材料

2. 邻苯二甲酸酯

2.1 检测方法

检测项目	测试方法
邻苯二甲酸酯	GB/T 22048-2022

2.2 检测设备

设备名称	厂家	型号
GC-MS	SHIMADZU	QP2010 Ultra

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2.3 检测结果: 限值依据 GB 21027-2020

检测项目	CAS No.	结果(mg/kg)	MDL (mg/kg)	限值 (mg/kg)
		01		
邻苯二甲酸二(2-乙基)己酯 (DEHP) (DOP)	117-81-7	N.D.	10	----
邻苯二甲酸二丁酯 (DBP)	84-74-2	N.D.	10	----
邻苯二甲酸丁苄酯 (BBP)	85-68-7	N.D.	10	----
总计(DEHP+DBP+BBP)	----	N.D.	----	1000

备注

- 1) N.D. = 未检测到 (小于 MDL)
- 2) MDL = 方法检出限

3. QB/T 2309-2020 《橡皮擦》

测试条款	要求	结果	单项结论
		01	
4	要求	--	--
4.3	性能指标 应符合附表 4 要求	通过 (见附表 1)	符合

附表1: 性能指标

项目		性能	结果
橡胶橡皮擦 (含合成材料)	消字率/% ≥	75	93.7

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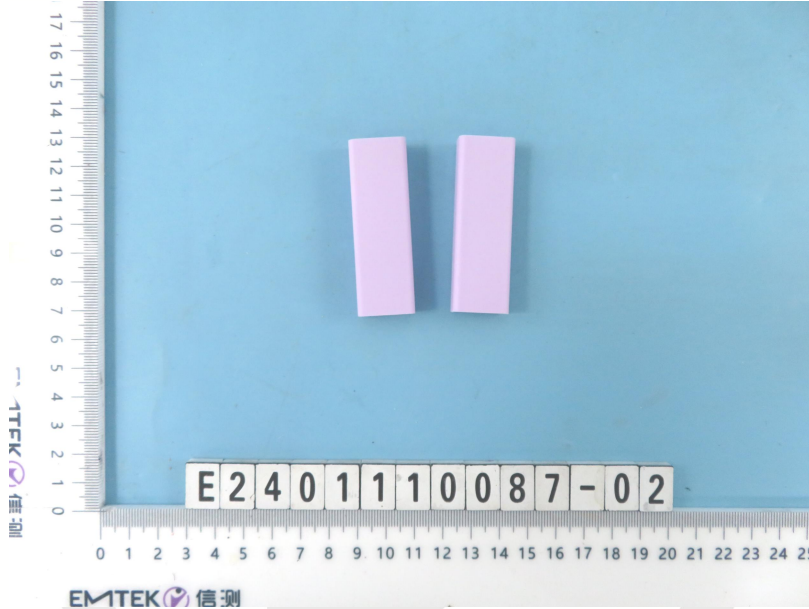
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样品照片



*** 报告结束 ***

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