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检测报告

编号: ESZ2409190316T00001R

日期: 2024 年 09 月 30 日

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委托单位 : 青岛点石文具用品有限公司

地 址 : 青岛莱西市夏格庄镇华丽路北

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 : 双珠速干按动中性笔

型 号 : DS-0152

接收日期 : 2024 年 09 月 20 日

检测周期 : 2024 年 09 月 20 日~2024 年 09 月 30 日

检测概要 :

检测项目

结 论

依据客户要求, 按照 GB 21027-2020 《学生用品的安全通用要求》进行指定项目测试

符合

依据客户要求, 按照 GB/T 37853- 2019 《中性墨水圆珠笔和笔芯》进行指定项目测试

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

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2024 年 09 月 30 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)

序号	样品编号	样品名称
01	E2409190316-01-T	双珠速干按动中性笔
01.01	E2409190316-01.01-T	银河系涂层
01.02	E2409190316-01.02-T	冰川湖涂层
01.03	E2409190316-01.03-T	北极光涂层
01.04	E2409190316-01.04-T	火流星涂层
01.05	E2409190316-01.05-T	绿野境涂层
01.06	E2409190316-01.06-T	火烧云涂层
01.07	E2409190316-01.07-T	黑色油墨
01.08	E2409190316-01.08-T	白色塑料

检测结果汇总

1. GB 21027-2020 《学生用品的安全通用要求》

测试条款	要求	结果	单项结论
		E2409190316-01-T	
4.1	可迁移元素的限量 学生用品中可迁移元素的含量应不超过表 1 中的相应元素的最大限量要求。可迁移元素最大限量中, 可触及的学生用品的印、刷、涂部分从单件样品中得到的每份可取样不足 10mg 时予以豁免。	通过 (见附表 1)	符合
4.5	可触及的塑料件中邻苯二甲酸酯增塑剂的限量 可触及的塑料件中邻苯二甲酸二己酯(DEHP)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁苄酯(BBP)三种邻苯二甲酸酯总含量应不超过 1000mg/kg。对于单一样品的单一材料的取样量不足 10mg 时予以豁免。	通过 (见附表 2)	符合

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附表 1: 可迁移元素的限量测试结果汇总 (检测方法: GB 6675.4-2014)

检测项目	锑 (Sb)	砷 (As)	钡 (Ba)	镉 (Cd)	铬 (Cr)	铅 (Pb)	汞 (Hg)	硒 (Se)
限值	60	25	1000	75	60	90	60	500
RL	5	5	5	5	5	5	5	5
单位	mg/kg							
结果	01.01	N.D.	N.D.	32	N.D.	N.D.	N.D.	N.D.
	01.02	N.D.	N.D.	62	N.D.	N.D.	N.D.	N.D.
	01.03	N.D.	N.D.	141	N.D.	N.D.	N.D.	N.D.
	01.04	N.D.	N.D.	45	N.D.	N.D.	N.D.	N.D.
	01.05	N.D.	N.D.	34	N.D.	N.D.	N.D.	N.D.
	01.06	N.D.	N.D.	60	N.D.	N.D.	N.D.	N.D.
	01.07	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

备注:

- 1) N.D. = 未检测到 (小于 RL)
- 2) RL = 报告限

附表 2: 可触及的塑料件中邻苯二甲酸酯增塑剂的限量测试结果汇总 (检测方法: GB/T 22048-2022)

检测项目	RL (mg/kg)	CAS No.	结果(mg/kg)	限值 (mg/kg)	结论
			01.08		
邻苯二甲酸二丁酯 (DBP)	30	84-74-2	N.D.	---	---
邻苯二甲酸丁苄酯 (BBP)	30	85-68-7	N.D.	---	---
邻苯二甲酸二(2-乙基己基)酯 (DEHP) (DOP)	30	117-81-7	N.D.	---	---
总计	---	---	N.D.	1000	符合

备注:

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2.GB/T 37853-2019 《中性墨水圆珠笔和笔芯》

测试条款	要求	检测结果	结论
		E2409190316-01-T	
5	要求	--	--
5.1	中性笔和笔芯的性能应符合表 4 的规定。	通过, (见附表 3)	符合
5.2	中性笔的其他性能还应符合表 5 规定。	通过, (见附表 4)	符合
5.3	中性笔外观应符合下列要求: a) 表面光洁, 无擦伤、裂纹等缺陷; b) 整笔无明显歪斜; c) 零部件装配平整、牢固; d) 标志字迹清晰。	通过	符合
5.4	14 周岁以下学生使用的中性笔或笔芯中的墨水、笔杆(包括笔套)上的涂层中可迁移元素含量和笔套安全应符合 GB 21027 的规定。	见项目 1	符合

附表 3: 性能要求

项目	要求		结果
	一般书写	文件书写	<input checked="" type="checkbox"/> 一般书写 <input type="checkbox"/> 文件书写
初写性能	100 mm 内出墨正常		通过
书写性能	UF	划线 400m 以上, 线迹无明显断线、变淡现象	/
	EF		/
	F	划线 300m 以上, 线迹无明显断线、变淡现象	通过
	M	划线 150m 以上, 线迹无明显断线、变淡现象	/
	B	划线 100m 以上, 线迹无明显断线、变淡现象	/
渗透性	≥24h, 书写纸背面无明显痕迹		通过
干燥性	≤20s, 覆盖纸应无墨迹		通过
复印性	复印线迹保持可见		通过
耐水性	≥1 h, 线迹保持可见 ^a	≥24 h, 线迹保持可见	通过
耐光性	≥72 h, 线迹保持可见		通过
保存性	A 法	(50±2)°C, 10 天, 应符合初写性能和书写性能的要求	通过
	B 法 ^b	(40±2)°C, (55±5)%R.H., 90 天, 应符合初写性能和书写性能的要求	/

^a适用于有“耐水”或“WR 标志的中性笔和笔芯。
^b当对试验结果有异议时, B 法为仲裁试验方法。

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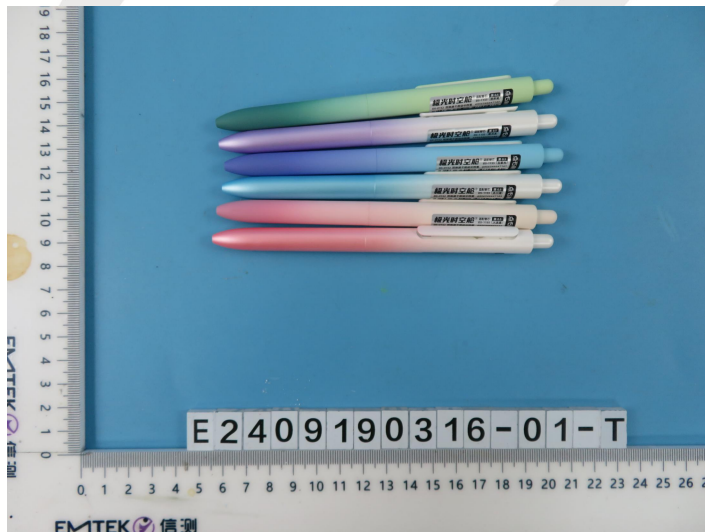
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附表 4: 其他性能要求		
项目名称	要求	结果
出芯机构灵活性 ^a	使用、复位转换灵活, 复位时球珠不外露	通过
笔杆头部孔径与笔头外径差值/mm	≤0.20	通过, 差值 0.08
耐冲击性	1m 高度水平跌落, 能书写正常, 零部件无开裂、变形、脱落	通过
镀层抗蚀性	≥3 min, 不露基材	通过

^a适用于活动式中性笔。

样品照片



*** 报告结束 ***

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