



Test Report 检测报告

Applicant Jie Chuang Li Technology Ltd
申请人: 深圳市捷创力科技有限公司
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Job No 项目号.....: SUES250900183671
Date of issue 发布日期..: 2025-10-17
Testing laboratory SGS-CSTC Standards Technical Services Co., Ltd. Suzhou Branch
测试实验室.....: 通标标准技术服务有限公司苏州分公司
Address 地址.....: No.10, Weiye Road, Kunshan Development Zone, Suzhou, Jiangsu, China
中国·江苏·苏州市开发区伟业路 10 号
Manufacturer 制造商.....: Kind Wei Technology Ltd
东莞凯嘉利科技有限公司
901 Building #1, JinFengHuangJinXing Road #8, FengGang Town, DongGuan
GuangDong, China
广东省东莞市凤岗镇金凤凰路金兴路 8 号 1 栋 901 室
Factory 工厂.....: Same as manufacturer 同制造商
Test Item 产品名称.....: Red Light Eye-Protection Film 红光护眼膜(Trade Mark 商标: MIKELA 米
克拉)
Model No.产品型号.....: H268
Sample No 样品编号.....: SUES2509001836AT M1
Sample source 样品来源: Sent by customer 客户寄样
Date of receipt 接受日期: 2025-09-12
Testing period 测试周期.: 2025-09-18 – 2025-09-28
Test requested 测试标准: PT-22-000-300940 SGS Eye Friendly Film / Glass Technical specification
PT-22-000-300940 护眼贴膜, 眼镜类产品技术规范
Test Results 测试结果...: **Pass 合格**
Conclusion 结论.....: The product compliances with PT-22-000-300940 SGS Eye Friendly Film /
Glass Technical specification
产品符合 PT-22-000-300940 护眼贴膜, 眼镜类产品技术规范
Remark 备注.....: **Weighted Eye Friendly Index (WEF): 8.94**
加权护眼指数 (WEF) : 8.94

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Member of the SGS Group (SGS SA)

TRF No. EEC_PT_ PT-22-000-300940 B

Summary of testing 测试总结:			
Tests performed: 检测实施: All applicable tests as described in the compliance checklist were performed. See following pages for details. The test samples are Engineering samples without serial numbers. 所有检测依照相关测试要求, 具体参照下一页 检测样品为无编号的工程样品		Testing location: 检测实验室: SGS-CSTC Standards Technical Services Co., Ltd. Kunshan Branch No.10, Weiye Road, Kunshan Development Zone, Kunshan, Jiangsu, China 通标标准技术服务有限公司昆山分公司 江苏省昆山市开发区伟业路 10 号	
Test conditions 检测条件:			
Temp.: 23 ± 2°C	温度.: 23 ± 2°C		
RH.: 60 ± 20 %	湿度.: 60 ± 20 %		
Amb. Illumination: < 0.1 lx	环境照度: < 0.1 lx		

Weighted Low Visual Fatigue for Film & Glass Technical specification Requirements & Test Results

贴膜，眼镜类产品加权低视疲劳测试技术规范认证要求和测试结果

<u>Clause</u> 条款	<u>Requirements</u> 要求	<u>Assessment</u> 评估	<u>Remarks</u> 备注
5.2	Objective Performance requirements 客观光学性能要求	P	Total OPR Score 客观光学总分:9.0
5.2.1	Products must meet local compliance requirements 产品必须符合当地法规要求	N/A	Will check the final product 在最终产品确认
5.2.2	HEV Blue light Blocking Ratio (415nm-455nm) 高能可见蓝光阻隔率 Test method Light source: CIE Standard D65 Test the Spectral of with glass/Film and without glass/Film Analysis the spectral range of 415nm-455nm Equipment: Spectrophotometer or spectrometer 测试方法: 光源: CIE 标准 D65 光源 测试有贴膜/眼镜和没有贴膜/眼镜的光谱 分析 415nm~455nm 波段光谱 设备: 分光光度仪或光谱仪	Score 得分:10	HEV Blue light Blocking Ratio 高能可见蓝光阻隔率 : 28.21%

5.2.3	Luminance reduction Ratio 亮度衰减率 Test method Light source: CIE Standard D65 Measure the luminance of with and without glass/Film Calculate the Luminance reduction Ratio 测试方法: 光源: CIE 标准 D65 光源 测试有贴膜/眼镜和没有贴膜/眼镜的亮度 计算亮度衰减率	Score 得分:10	LR=1.36%
5.2.4	Color Gamut Coverage shift: 色域覆盖率迁移 Test method : Use the Standard monitor to display the required test pattern: Test Pattern: WRGB Measure the Color coordinates of WRGB with and without glass/Film Calculate the Color gamut coverage shift For Color space, either sRGB in CIE 1931, Adobe in CIE 1931, DCI-P3 in CIE 1931 or NTSC in CIE 1931 are acceptable 测试方法: 用标准显示器显示要求测试画面 测试画面: 白/红/绿/蓝 画面 测试有贴膜/眼镜和没有贴膜/眼镜的白/红/绿/蓝画面的色坐标, 计算色域覆盖率 关于色彩空间,	Score 得分:10	0.27%sRGB

5.2.5	CCT Change 色温迁移 Test method : Use the Standard monitor to display the required test pattern: Test Pattern : RGB(255,255,255) Measure the CCT of with and without glass/Film 测试方法: 用标准显示器显示要求测试画面 测试画面: RGB(255,255,255) 测试有贴膜/眼镜和没有贴膜/眼镜的色温	Score 得分: 5	CCT Change=560K										
5.2.6	Color uniformity-angular dependence 视角色偏 Test method: Use the Standard monitor to display the required Test pattern: The measurement area must have each of the following RGB settings: (255, 0, 0) for red, (0, 255, 0) for green, (0, 0, 255) for blue. Measure the color coordinates of with glass/ Film. Measure the chromaticity coordinates at the center of the measurement area with 0° and 15° viewing angle for each color setting specified above $\Delta u'v' = \sqrt{(u'_A - u'_B)^2 + (v'_A - v'_B)^2}$ 测试方法: 用标准显示器显示要求测试画面 测试画面: 测试区域需要符合以下 RGB 设定: 红 (255, 0, 0), 绿 (0, 255, 0), 蓝 (0, 0, 255)。 测试0° 和15° 视角下每个颜色的色坐标 $\Delta u'v' = \sqrt{(u'_A - u'_B)^2 + (v'_A - v'_B)^2}$	Score 得分:10	<table><tr><th>Test pattern 测试画面</th><th>色差 $\Delta u'v'$</th></tr><tr><td>W</td><td>0.00201</td></tr><tr><td>R</td><td>0.00204</td></tr><tr><td>G</td><td>0.00024</td></tr><tr><td>B</td><td>0.00032</td></tr></table>	Test pattern 测试画面	色差 $\Delta u'v'$	W	0.00201	R	0.00204	G	0.00024	B	0.00032
Test pattern 测试画面	色差 $\Delta u'v'$												
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5.3	Human Factor Requirement 人因要求: The visual comfort index was calculated by subjective scale score. In the typical use scenario of the testing product, we recruit the target user group to carry out a 40 minute typical visual perception task by using the testing sample. Collect subjective data in of evaluating indicators before, after the task. The number of subjects shall not be less than 8, and the number of men and women shall be balanced. The visual comfort index shall be calculated according to the test results scores and the weight of each evaluating indicators. The visual comfort index shall be more than 8.00 points. The calculation formula is as follows: $VICI = \sum_{i=1}^n IndexScore_i * W_i \dots\dots\dots (1)$ 式中: VICI—— the Visual Comfort Index; IndexScore_i ——the score of the i evaluating indicators; W_i——the weight of the i evaluating indicators. 利用主观量表评价方法进行视舒适指数计算。招募目标用户群体在产品典型使用情景下进行 40 分钟典型视知觉作业任务,任务前后分别采集用户舒适性主观量表评价数据,测试人数不少于 8 名,男女均衡。依据测试结果及各指标的权重计算视舒适指数,视舒适指数应在 8.00 分以上。计算公式如下: $VICI = \sum_{i=1}^n IndexScore_i * W_i \dots\dots\dots (1)$ 式中: VICI——视舒适指数; IndexScore_i——第 i 个测试指标的得分; W_i——第 i 个测试指标对应的权重。	P	Report 报告号: ENL-HYM-2025-0001 Issued by: CNIS 签发单位: 中国标准化研究院实验中心 Issue date: 2025-10-20 签发日期: 2025-10-20 VICI Score: 8.92 视舒适指数: 8.92 Remarks: 8 users aged 23-38 were recruited for this test, including 4 males and 4 females, with an average age of 27.75 years and a standard deviation of 6.48 years. 备注: 本次测试共招募 23-38 周岁的用户 8 名,其中男生 4 名,女生 4 名,年龄均值为 27.75 岁,标准差为 6.48 岁。
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5.4	Weighted Eye Friendly Index: 加权护眼指数 0.3* OPR Score + 0.7* VIFI Score 0.3* 客观光学得分 + 0.7* VIFI 人因得分 Mandate 要求: ≥ 8	P	WEF Index: 8.94 加权护眼指数:8.94
Remark 备注: 1. N/A--- Not Applicable 不适用 2. N/C--- Not Checked 未核查 3. The testing method is not in the scope of CMA accreditation. This testing report is only used for customer research, teaching, internal quality control, product development and other purposes, and is for internal reference only. 检测方法不在 CMA 资质认定范围内, 本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。			

Appendix 附录 I: Photo documentation 照片

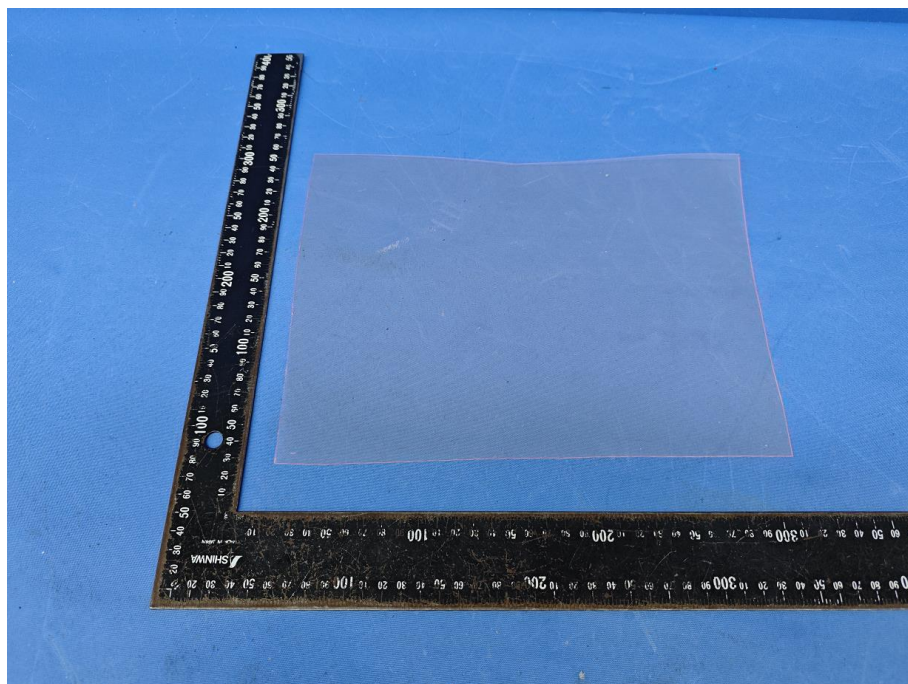


Figure 1. Front view 正面

Appendix 附录 III: Equipment List 设备清单:

Equipment 设备	Brand /Product name 品牌 /设备型号	Equipment number 设备编号	Calibration Valid Date 计量有效日期
Goniometer System	Instrument Systems/DMS803	KSES112501	2026-06-17

End of Report