

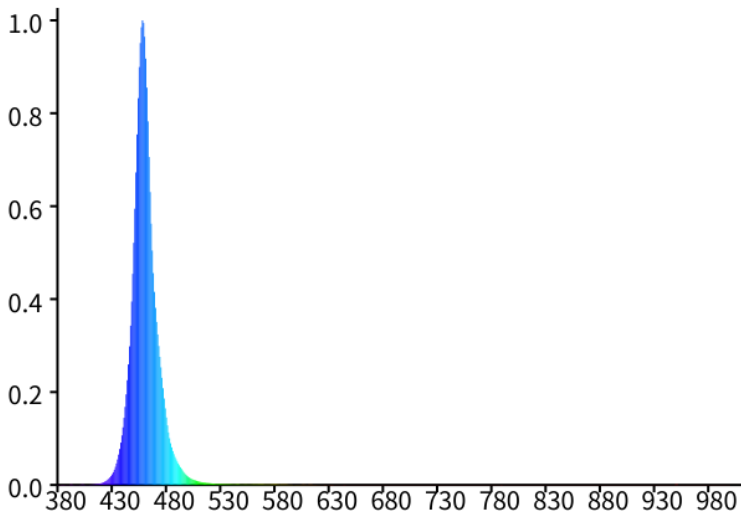
OPTICAL MEASUREMENT DATA

Blue light mode | English translation

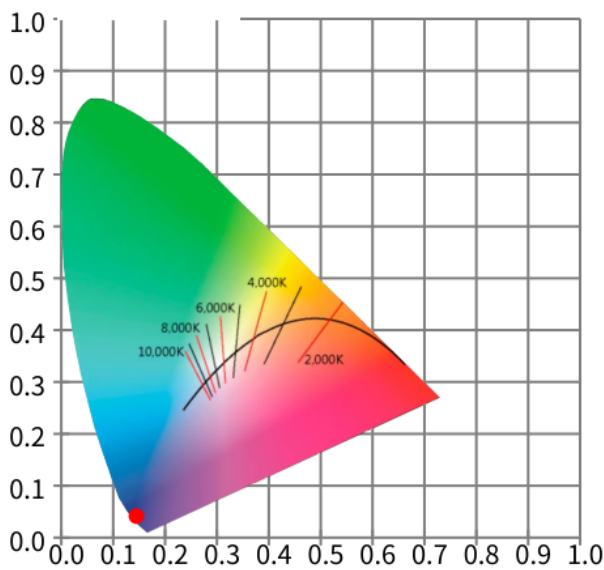
Source heading: Spectral Analysis System

Correlated colour temperature (K)	Illuminance (lx)	Peak wavelength (nm)	Centre wavelength (nm)
99999	16887.8	458.3	458.3
Dominant wavelength (nm)	Centroid wavelength (nm)	Full width at half maximum (nm)	Dark signal
462.5	461.0	17.6	6153.0
Peak signal	Colour purity (%)	Integration time (ms)	Colour tolerance
55514	97.5	0.434	117.969
Blackbody deviation (duv)	Optical power density (W/m2)	Irradiance (mW/cm2)	Irradiance (uW/cm2)
0.00000	324.813	32.481	32481.297
Illuminance (fc)	Photopic / scotopic ratio	CIE 1931 X	CIE 1931 Y
1563.7	19.1	85996.1	24725.4
CIE 1931 Z	Red-light irradiance (uW/cm2)	Near-infrared irradiance (uW/cm2)	Transmittance (%)
483532.3	29.1	0.3	100.0

Spectral distribution



CIE 1931 chromaticity diagram



Chromaticity coordinates

x: 0.1447 y: 0.0416 u: 0.1803 v: 0.0778 u': 0.1803 v': 0.1167

Primary colour proportions

Red (%): 0.1 Green (%): 2.5 Blue (%): 97.4

Colour rendering and additional parameters are listed on page 3.

Figures reproduced from source; wavelength axis in nm.

Product:	Face mask	Product model:	SolarMask SM-1001
Product / sample No.:	01	Test date:	2025/10/28
Tester:	Liao Haijiao	Test instrument:	HP350FR
Manufacturer:	Not specified in source	Remarks:	Not specified in source

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Source heading: Spectral Data Report

Spectral data table

WL (nm)	PL	PE (mW/nm)	WL (nm)	PL	PE (mW/nm)	WL (nm)	PL	PE (mW/nm)
380	0.0001	3.497760	580	0.0012	79.511192	780	0.0000	0.000000
385	0.0003	19.525871	585	0.0010	63.898003	785	0.0000	2.566753
390	0.0004	26.815660	590	0.0009	58.733505	790	0.0002	12.207092
395	0.0003	18.885674	595	0.0006	37.584686	795	0.0000	0.504415
400	0.0004	28.634359	600	0.0004	25.071539	800	0.0000	0.000000
405	0.0005	33.607864	605	0.0006	38.598148	805	0.0000	0.000000
410	0.0006	41.743553	610	0.0006	40.644600	810	0.0000	0.000000
415	0.0017	116.416389	615	0.0006	39.259747	815	0.0000	0.000000
420	0.0043	290.162720	620	0.0003	21.722319	820	0.0000	0.000000
425	0.0111	746.445740	625	0.0003	18.584116	825	0.0000	0.000000
430	0.0264	1770.761841	630	0.0003	22.476719	830	0.0000	0.000000
435	0.0625	4186.846191	635	0.0003	17.801191	835	0.0000	0.000000
440	0.1393	9333.414063	640	0.0001	9.182405	840	0.0000	0.000000
445	0.2897	19406.767578	645	0.0002	14.878967	845	0.0000	0.000000
450	0.5738	38438.351563	650	0.0001	7.692470	850	0.0000	0.000000
455	0.9378	62821.484375	655	0.0000	1.154575	855	0.0000	0.000000
460	1.0000	66985.257813	660	0.0000	1.679613	860	0.0000	0.000000
465	0.6906	46258.753906	665	0.0001	8.080369	865	0.0000	0.000000
470	0.4200	28132.056641	670	0.0001	7.252516	870	0.0000	0.000000
475	0.2732	18303.535156	675	0.0001	9.593483	875	0.0000	0.000000
480	0.1607	10765.916992	680	0.0002	12.014900	880	0.0000	0.000000
485	0.0898	6014.724609	685	0.0001	6.420527	885	0.0000	0.000000
490	0.0551	3694.186768	690	0.0000	2.587887	890	0.0000	0.000000
495	0.0339	2270.629395	695	0.0000	0.724229	895	0.0000	0.000000
500	0.0198	1329.380127	700	0.0000	0.000000	900	0.0000	0.000000
505	0.0123	823.539185	705	0.0000	0.000000	905	0.0000	0.000000
510	0.0081	540.711304	710	0.0000	0.000000	910	0.0000	0.000000
515	0.0055	370.603882	715	0.0000	0.000000	915	0.0000	0.000000
520	0.0041	276.415375	720	0.0000	0.057634	920	0.0000	0.000000
525	0.0030	201.933212	725	0.0000	1.966077	925	0.0000	0.000000
530	0.0024	160.240295	730	0.0000	0.525508	930	0.0000	0.000000
535	0.0020	133.111389	735	0.0000	0.000000	935	0.0000	0.000000
540	0.0016	107.678535	740	0.0000	0.000000	940	0.0000	0.000000
545	0.0015	100.026062	745	0.0000	0.000000	945	0.0000	0.573362
550	0.0011	75.904053	750	0.0000	0.000000	950	0.0005	32.363434
555	0.0010	69.710838	755	0.0000	0.000000	955	0.0001	9.210570
560	0.0012	78.751747	760	0.0000	0.000000	960	0.0000	0.000000
565	0.0013	86.248222	765	0.0000	0.000000	965	0.0000	0.000000
570	0.0011	75.863037	770	0.0000	0.000000	970	0.0000	0.000000
575	0.0010	68.146530	775	0.0000	0.000000	975	0.0000	0.000000

WL = wavelength. PL and PE headings and units are reproduced as supplied.

Product:	Face mask	Product model:	SolarMask SM-1001
Product / sample No.:	01	Test date:	2025/10/28
Tester:	Liao Haijiao	Test instrument:	HP350FR
Manufacturer:	Not specified in source	Remarks:	Not specified in source

OPTICAL MEASUREMENT DATA

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Source heading: Spectral Data Report

Spectral data table (continued)

WL (nm)	PL	PE (mW/nm)	WL (nm)	PL	PE (mW/nm)	WL (nm)	PL	PE (mW/nm)
980	0.0000	0.000000						
985	0.0000	0.000000						
990	0.0000	0.000000						
995	0.0000	0.000000						
1000	0.0000	0.000000						

Colour rendering indices

Ra: -51.3	Ravg: -61.2	R1: -37.9	R2: -62.8	R3: -100.0	R4: -78.6
R5: 30.2	R6: -44.9	R7: -59.5	R8: -57.2	R9: -100.0	R10: -100.0
R11: -100.0	R12: -100.0	R13: -62.2	R14: -36.9	R15: -23.3	

Additional source parameters

Colour quality scale (CQS): 0.1

Blue-light parameters - near-infrared irradiance (uW/cm2): 5.7

Translation notes

All numerical measurement values and units have been retained.

WL = wavelength. PL and PE are retained as labelled in the source.

Blank manufacturer and remarks fields are identified as not specified.

Tester name is transliterated; source company details have been omitted.

The source heading "Blue-light parameters" is retained despite the NIR field.

No measurement distance or geometry is stated in the supplied source.

Product model SM-1001 is supplied by SolarMask; equivalence to the tested sample is not verified in this translation. Independent testing is not established.

Product:	Face mask	Product model:	SolarMask SM-1001
Product / sample No.:	01	Test date:	2025/10/28
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