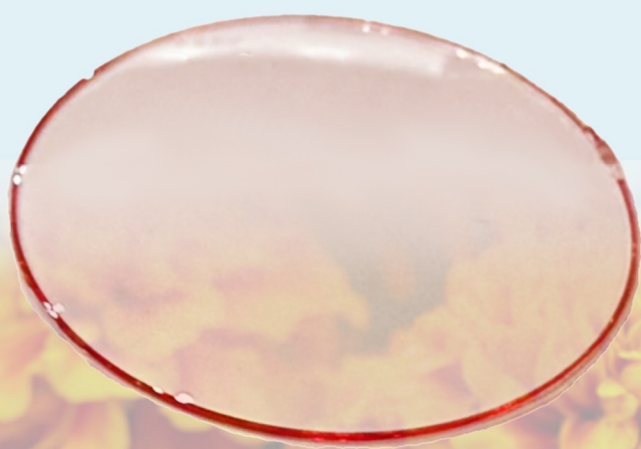


マリーゴールド由来のルテインを 配合した目にやさしいレンズ

— 高透過率 × HEV カット性能を両立 —

Lutein-Infused Optical Lens
High Transmission & HEV Protection



「見る」だけで目を守る

光ストレス社会に
新しい目の保護技術を

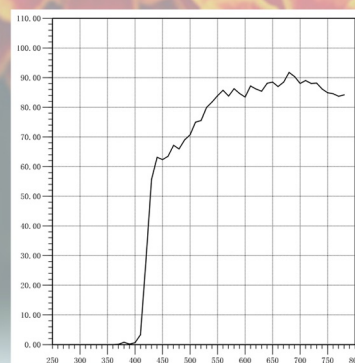
製品特徴

- ・ マリーゴールド由来のルテインをレンズに配合
- ・ 可視光線透過率が高くて明るいレンズ
- ・ HEV を大幅カットにより眼と睡眠リズムを保護
- ・ レンズカラーが薄く自然な見た目と快適な視界を両立

技術データ

項 目	値	要 求	結 果
可視光線透過率	81.59%	> 40.00%	PASS
UVB カット率 (280 - 315nm)	99.0%	> 89.80%	PASS
UVA カット率 (315 - 380nm)	100.0%	> 18.41%	PASS
HEV カット率 (400~420nm)	90.0%	—	—

Standard: ANSI Z80.3:2018



株式会社フレイムワーク
福井県鯖江市平井町 32-6-13

アイウェアとスマートテクノロジーで
眼の健康と睡眠をサポートします

FrameWork

Lens Certification Report

Standard: ANSI Z80.3:2018

Item	Value	Requirement	Result
Lens Primary Function	Cosmetic Lens		
Luminous Transmittance Tv	81.59 %	> 40 %	PASS
Color Limit, Yellow(x,y)	(0.5779 , 0.4209)		PASS
Color Limit, Green(x,y)	(0.2213 , 0.4354)		PASS
Color Limit, D65(x,y)	(0.3406 , 0.3638)		PASS
Tsig, Red Signal	87.104 %	>=8.00 %	PASS
Tsig, Yellow Signal	85.122 %	>=6.00 %	PASS
Tsig, Green Signal	79.243 %	>=6.00 %	PASS
Tmin (475- 650nm)	64.10 %	> =16.32 % (0.2Tv)	PASS
Tmax UVB (280- 315nm)	0.08 %	< =10.20 % (0.125Tv)	PASS
Tmax UVA (315- 380nm)	0.00 %	< =81.59 % (Tv)	PASS
Tsb (380- 500nm)	56.18 %		

Standard: EN ISO 12312-1:2013(A1:2015)

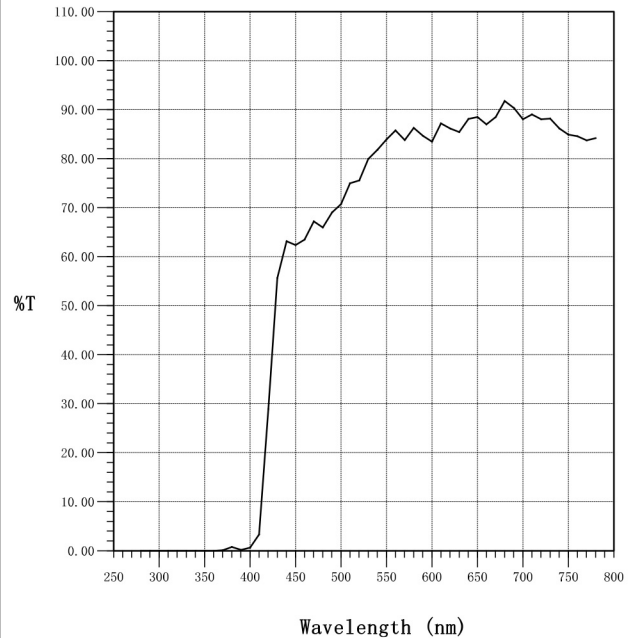
Item	Value	Requirement	Result
Filter Category	0		
Luminous Transmittance Tv	81.59 %	> 80 %	PASS
Incandescent Lights			
Q, Red	1.06	>=0.80	PASS
Q, Yellow	1.04	>=0.60	PASS
Q, Green	0.99	>=0.60	PASS
Q, Blue	0.90	>=0.60	PASS
LED Signal Lights			
Q, Red	1.06	>=0.80	PASS
Q, Yellow	1.04	>=0.60	PASS
Q, Green	0.91	>=0.60	PASS
Q, Blue	0.82	>=0.60	PASS
Tmin (475- 650nm)	64.10 %	> =16.32 % (0.2Tv)	PASS
Tsuva (315- 380nm)	0.06 %	< =81.59 % (Tv)	PASS
Tsuvb (280- 315nm)	0.00 %	< =4.08 % (0.05Tv)	PASS
Tsuv (280- 380nm)	0.04 %		
Tsb (380- 500nm)	56.18 %		
Road Use And Driving			PASS
Driving In Twilight or Night	81.59	Tv >= 75 %	PASS

Standard:AS/NZS 1067.1:2016

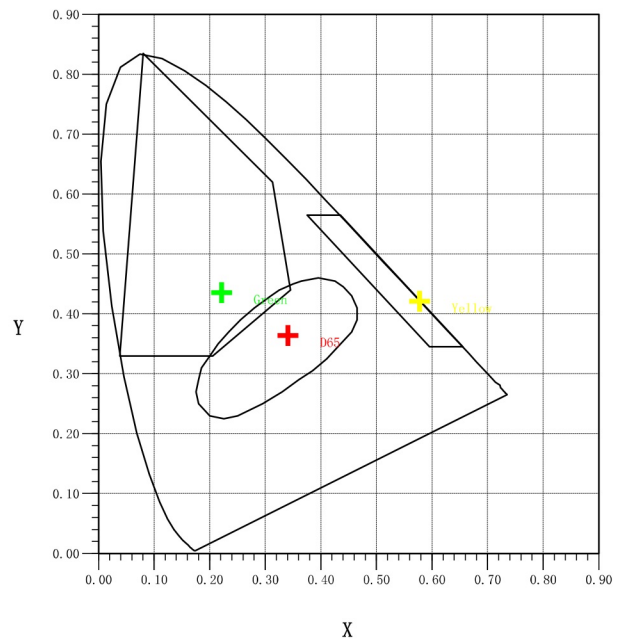
Item	Value	Requirement	Result
Lens Category	0		
Luminous Transmittance Tv	81.59 %	> 80 %	PASS
Incandescent Lights			
Q, Red	1.06	>=0.80	PASS
Q, Yellow	1.04	>=0.60	PASS
Q, Green	0.99	>=0.60	PASS
Q, Blue	0.90	>=0.70	PASS
LED Signal Lights			
Q, Red	1.06	>=0.80	PASS
Q, Yellow	1.04	>=0.60	PASS
Q, Green	0.91	>=0.60	PASS
Q, Blue	0.82	>=0.70	PASS
Tmin (475-650nm)	64.10 %	> =16.32 % (0.2Tv)	PASS
Tsuva (315- 400nm)	0.09 %	< =81.59 % (Tv)	PASS
Tsuvb (280- 315nm)	0.00 %	< =4.08 % (0.05Tv)	PASS
Tsuv (280- 380nm)	0.04 %		
Tsb (380- 500nm)	56.18 %		

CIE 1976 L*,a*,b* color space coordinates,illuminan D65
L*=91.870 a*=-1.447 b*=18.263

Transmittance Spectrum



Color Limit Regions of Acceptance



Spectrum Data:

nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T
280	0.00	290	0.00	300	0.00	310	0.00	320	0.00	330	0.00	340	0.00	350	0.00	360	0.00	370	0.10	380	0.79	390	0.23
410	3.34	420	28.94	430	55.65	440	63.18	450	62.38	460	63.49	470	67.21	480	65.96	490	69.02	500	70.75	510	74.99	520	75.57
540	81.83	550	83.91	560	85.75	570	83.82	580	86.28	590	84.68	600	83.51	610	87.18	620	86.17	630	85.45	640	88.10	650	88.49
670	88.50	680	91.79	690	90.36	700	88.08	710	89.05	720	88.05	730	88.16	740	86.14	750	84.90	760	84.59	770	83.71	780	84.21

(1). ANSI Z80.3:2018

PASS

Lens Primary Function

Cosmetic Lens

(2). EN ISO 12312-1:2013(A1:2015)

PASS

Filter Category

0

(3). AS/NZS 1067.1:2016

PASS

Lens Category

0

(4). UV380

PASS

(5). UV400

PASS