

ELLIM OPTICAL

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Sunglasses Certification Report

Sample Name : C 청광+AR/G+EMI
Company :
Material : 1.56 증굴절
Size : 72-2.0-4C

Sample Remark :

Standard: ANSI Z80.3:2010

Item	Value	Requirement	Result
Lens Primary Function	Cosmetic Lens		
Luminous Transmittance Tv	94.47%	>40%	PASS
Color Limit, Yellow(x,y)	(0.58,0.42)		PASS
Color Limit, Green(x,y)	(0.21,0.40)		PASS
Color Limit, D65(x,y)	(0.32,0.33)		PASS
Tsig, Red Signal	96.95%	>=8.00%	PASS
Tsig, Yellow Signal	96.95%	>=6.00%	PASS
Tsig, Green Signal	94.27%	>=6.00%	PASS
Tmin (475 - 650nm)	92.79%	>=18.89%(0.2Tv)	PASS
Tmax UVB (280 - 315nm)	0.00%	<=11.81%(0.125Tv)	PASS
Tmax UVA (315 - 380nm)	0.00%	<=94.47%(Tv)	PASS
Tsb (380 - 500nm)	84.64%		

Standard: EN ISO 12312-1:2013

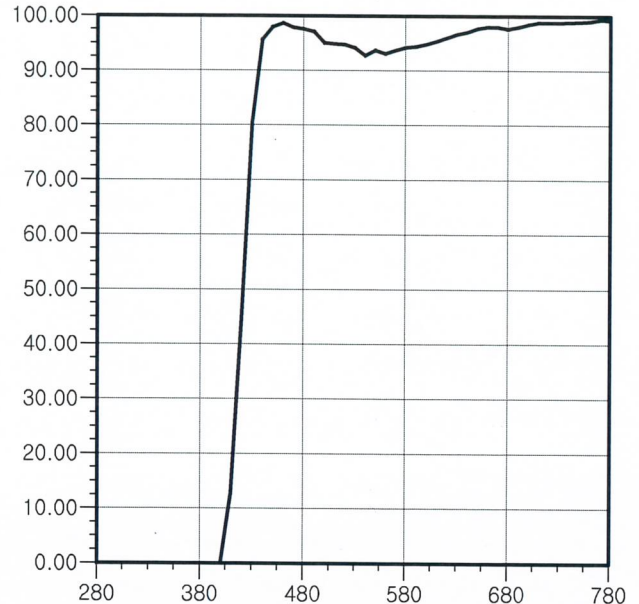
Item	Value	Requirement	Result
Filter Category	0		
Luminous Transmittance Tv	94.46%	>80%	PASS
Incandescent Lights			
Q,Red	1.02	>=0.80	PASS
Q,Yellow	1.00	>=0.60	PASS
Q,Green	1.00	>=0.60	PASS
Q,Blue	1.01	>=0.60	PASS
LED Signal Lights			
Q,Red	1.02	>=0.80	PASS
Q,Yellow	1.00	>=0.60	PASS
Q,Green	1.01	>=0.60	PASS
Q,Blue	1.03	>=0.60	PASS
Tmin(475 - 650nm)	92.79%	>=18.89%(0.2Tv)	PASS
Tsuva(315 - 380nm)	0.00	<=94.46%(Tv)	PASS
Tsuvb(280 - 315nm)	0.00%	<=4.72%(0.05Tv)	PASS
Tsuv(280 - 400nm)	0.00%		
Tsb(380 - 500nm)	84.74%		

Standard:AS/NZS 1067:2003(A1:2009)

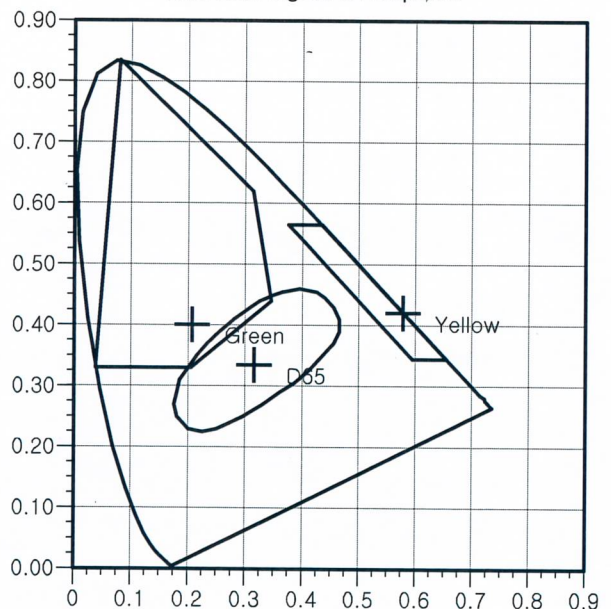
Item	Value	Requirement	Result
Lens Category	0		
Luminous Transmittance Tv	94.46%	>80%	PASS
Q,Red	1.02	>=0.80	PASS
Q,Yellow	1.00	>=0.80	PASS
Q,Green	1.00	>=0.60	PASS
Q,Blue	1.01	>=0.70	PASS
Tmax(280 - 315nm)	0.00%	<=4.72%(0.05Tv)	PASS
Tmax(315 - 350nm)	0.00%	<=94.46%(Tv)	PASS
Tmin(450 - 650nm)	92.79%	>=18.89%(0.2Tv)	PASS
Tsuva(315 - 400nm)	0.00%	<=94.46%(Tv)	PASS
Tsuvb(280 - 315nm)	0.00%		
Tsuv(280 - 400nm)	0.00%		
Tsb(400 - 500nm)	84.74%		

CIE 1976 L*,a*,b* color space coordinates,illuminan D65
L*=97.822 a*=-2.135 b*=4.053

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
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	0.00	380	0.00
410	12.88	420	44.73	430	80.37	440	95.65	450	97.93	460	98.64	470	97.86	480	97.58	490	97.15	500	95.09	510	94.87
540	92.79	550	93.72	560	93.15	570	93.75	580	94.22	590	94.43	600	94.85	610	95.38	620	96.01	630	96.65	640	97.05
670	98.03	680	97.66	690	98.03	700	98.48	710	98.81	720	98.82	730	98.83	740	98.89	750	98.94	760	99.06	770	99.33
																		780	99.28		

- (1). ANSI Z80.3:2010 PASS
(2). EN ISO 12312-1:2013 PASS
(3). AS/NZS 1067:2003(A1:2009) PASS
(4). UV380 PASS
(5). UV400 PASS

Lens Primary Function Cosmetic Lens
Filter Category 0
Lens Category 0