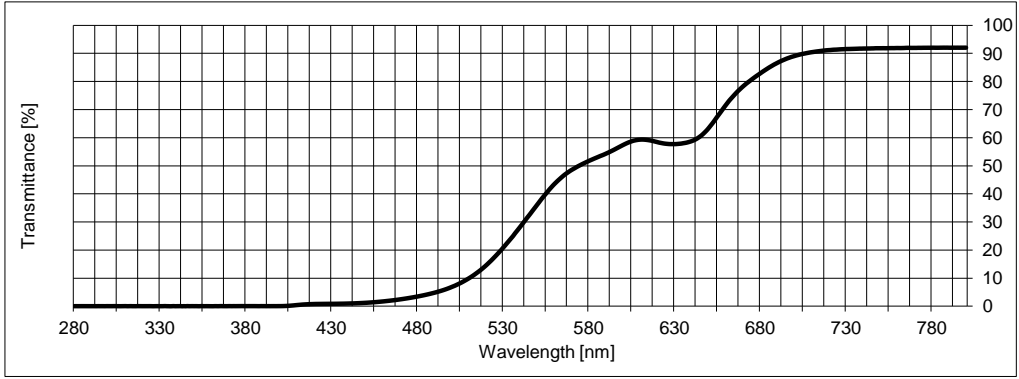


Wavelength [nm]	Transmission [%]
280	0,0
290	0,0
300	0,0
310	0,0
320	0,0
330	0,0
340	0,0
350	0,0
360	0,0
370	0,0
380	0,0
390	0,0
400	0,0
410	0,4
420	0,8
430	0,8
440	0,9
450	1,2
460	1,7
470	2,4
480	3,4
490	4,8
500	6,8
510	9,9
520	14,4
530	20,7
540	28,2
550	36,1
560	43,5
570	48,5
580	51,7
590	54,3
600	57,4
610	59,3
620	58,4
630	57,7
640	58,8
650	63,5
660	71,7
670	78,3
680	82,9
690	86,6
700	89,1
710	90,4
720	91,2
730	91,6
740	91,7
750	91,8
760	91,9
770	92,0
780	92,0
790	92,0
800	92,0



European Standard			DIN EN ISO 12312-1:2014-04			Pass
Luminous transmittance (D65) τ_v :			36,5%	Filter category: 2		Limit value
UV (280 - 380nm)	τ_{SUV} :	0,0%	100% UV-Protection			
UVA (315 - 380nm)	τ_{SUVA} :	0,0%	100% UVA-Protection	$\tau_{SUVAmix}$ (315 - 380nm):	0,0%	pass 36,5%
UVB (280 - 315nm)	τ_{SUVB} :	0,0%	100% UVB-Protection	$\tau_{SUVBmax}$ (280 - 315nm):	0,0%	pass 1,8%
blue light (380 - 500nm)	τ_{sb} :	1,7%	spectral transmittance (475-650nm) τ_{Vmin} :	2,9%	Fail	7,3%
Signal transmittance:						
red	signal transmittance τ_{sig} :	59,8%	Recognition of signal light Q:	1,64	Pass	0,8
yellow	signal transmittance τ_{sig} :	51,9%	Recognition of signal light Q:	1,42	Pass	0,6
green	signal transmittance τ_{sig} :	26,7%	Recognition of signal light Q:	0,73	Pass	0,6
blue	signal transmittance τ_{sig} :	22,0%	Recognition of signal light Q:	0,60	Pass	0,6
transmission properties related to traffic signal recognition: Fail						

American Standard			ANSI Z80.3-2010			Fail
Luminous transmittance (C) τ_v :			36,9%	primary function: General Purpose lens or shield	shade: medium to dark	
			Limit value		Limit value	
			normal use		high exposure	
UVA, mean Transmittance (315 - 380nm)	τ_{SUVA} :	0,0%	Pass	36,9%	Pass	18,4%
UVB, mean Transmittance (280 - 315nm)	τ_{SUVB} :	0,0%	Pass	4,6%	Pass	0,4%
blue light (380 - 500nm)	τ_{sb} :	1,7%	spectral transmittance (475-650nm) τ_{Vmin} :	2,9%	Fail	7,4%
Signal transmittance:						
red	signal transmittance τ_{sig} :	62,3%	Pass			
yellow	signal transmittance τ_{sig} :	51,7%	Pass			
green	signal transmittance τ_{sig} :	26,9%	Pass			
transmission properties related to traffic signal recognition: Fail						

Australian Standard			AS/NZS 1067:2003 / AMDT 1:2009			Fail
Luminous transmittance (D65) τ_v :			36,5%	Lens category: 2		Limit value
UV (280 - 380nm)	τ_{SUV} :	0,0%	100% UV-Absorption	$\tau_{F(A)max}$ (280 - 315nm):	0,0%	Pass 1,8%
UVA (315 - 380nm)	τ_{SUVA} :	0,0%		$\tau_{F(A)max}$ (315 - 350nm):	0,0%	Pass 36,5%
UVB (280 - 315nm)	τ_{SUVB} :	0,0%		$\tau_{SUVAmix}$ (315 - 380nm):	0,0%	Pass 36,5%
blue light (400 - 500nm)	τ_{sb} :	1,7%	spectral transmittance (450-650nm) τ_{Vmin} :	1,2%	Fail	7,3%
Signal transmittance:						
red	signal transmittance τ_{sign} :	59,8%	Recognition of signal light Q:	1,64	Pass	0,8
yellow	signal transmittance τ_{sign} :	51,9%	Recognition of signal light Q:	1,42	Pass	0,8
green	signal transmittance τ_{sign} :	26,7%	Recognition of signal light Q:	0,73	Pass	0,6
blue	signal transmittance τ_{sign} :	22,0%	Recognition of signal light Q:	0,60	Fail	0,7

Demand on lenses for use by drivers at night (5.2.3.4): **Fail**

Colorimetric Observer according DIN 5033

Standard illuminant A			
2° Observer	x = 0,5652	y = 0,4243	Y = 4,65
CIELAB 1976	L* = 71,63	a* = 25,11	b* = 88,97
HUNTER	L = 65,66	a = 8,51	b = 7,71
10° Observer	x = 0,5718	y = 0,4196	Y = 4,77
CIELAB 1976	L* = 70,79	a* = 26,29	b* = 91,47
HUNTER	L = 64,72	a = 9,19	b = 78,53

Standard illuminant C			
2° Observer	x = 0,5123	y = 0,4564	Y = 3,73
CIELAB 1976	L* = 71,04	a* = 16,55	b* = 87,92
HUNTER	L = 19,31	a = 4,90	b = 12,74
10° Observer	x = 0,5234	y = 0,4483	Y = 3,83
CIELAB 1976	L* = 70,34	a* = 21,94	b* = 87,00
HUNTER	L = 58,62	a = 6,83	b = 128,53

Standard illuminant D65			
2° Observer	x = 0,5104	y = 0,4593	Y = 3,86
CIELAB 1976	L* = 66,91	a* = 19,16	b* = 86,78
HUNTER	L = 60,42	a = 5,74	b = 12,40
10° Observer	x = 0,5217	y = 0,4510	Y = 3,97
CIELAB 1976	L* = 70,62	a* = 23,94	b* = 86,21
HUNTER	L = 58,42	a = 7,54	b = 125,46

Testreport Sunglasses

v = Pass x = Fail

released	V
blocked	
separated	

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