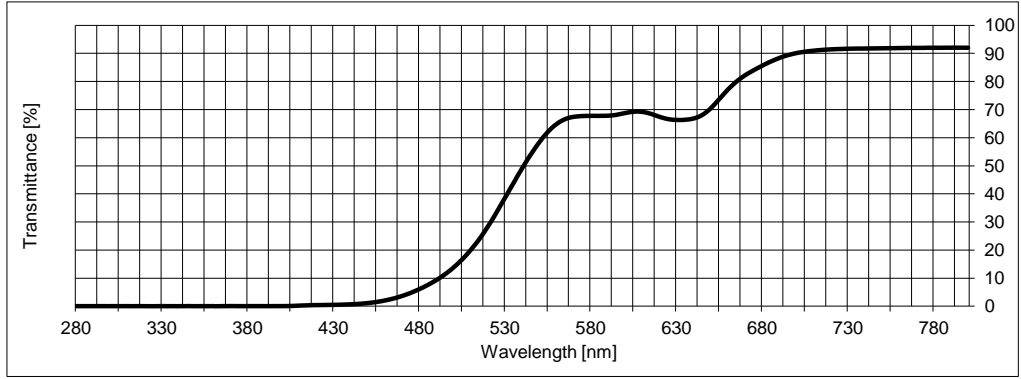


Wavelength [nm]	Transmission [%]
280	0,0
290	0,0
300	0,0
310	0,0
320	0,0
330	0,0
340	0,0
350	0,0
360	0,0
370	0,0
380	0,0
390	0,0
400	0,0
410	0,2
420	0,4
430	0,5
440	0,6
450	1,1
460	2,0
470	3,6
480	6,0
490	9,3
500	13,7
510	20,0
520	28,3
530	38,5
540	49,1
550	58,3
560	64,8
570	67,4
580	67,8
590	67,8
600	68,8
610	69,2
620	67,5
630	66,3
640	66,8
650	70,5
660	77,1
670	82,2
680	85,6
690	88,4
700	90,1
710	91,0
720	91,5
730	91,7
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 : 51,6%			Filter category: 1			Limit value
UV (280 - 380nm)	τ_{SUV} : 0,0%	100% UV-Protection	$\tau_{SUVAmax}$ (315 - 380nm): 0,0%	pass	51,6%	
UVA (315 - 380nm)	τ_{SUVA} : 0,0%	100% UVA-Protection	$\tau_{SUVBmax}$ (280 - 315nm): 0,0%	pass	2,6%	
UVB (280 - 315nm)	τ_{SUVB} : 0,0%	100% UVB-Protection	spectral transmittance (475-650nm) τ_{Vmin} : 4,7%	Fail	10,3%	
blue light (380 - 500nm)	τ_{sb} : 2,3%					
Signal transmittance:						
red	signal transmittance τ_{sig} : 69,2%		Recognition of signal light Q: 1,34	Pass	0,8	
yellow	signal transmittance τ_{sig} : 66,3%		Recognition of signal light Q: 1,29	Pass	0,6	
green	signal transmittance τ_{sig} : 42,8%		Recognition of signal light Q: 0,83	Pass	0,6	
blue	signal transmittance τ_{sig} : 32,7%		Recognition of signal light Q: 0,63	Pass	0,6	
transmission properties related to traffic signal recognition: Fail						

American Standard			ANSI Z80.3-2010			Fail
Luminous transmittance (C) τ_V : 51,9%			primary function: Cosmetic lens or shield			shade: light
			Limit value			Limit value
			normal use			high exposure
UVA, mean Transmittance (315 - 380nm)	τ_{SUVA} : 0,0%	Pass	51,9%	Pass	26,0%	
UVB, mean Transmittance (280 - 315nm)	τ_{SUVB} : 0,0%	Pass	6,5%	Pass	0,5%	
blue light (380 - 500nm)	τ_{sb} : 2,3%		spectral transmittance (475-650nm) τ_{Vmin} : 4,7%	Fail	10,4%	
Signal transmittance:						
red	signal transmittance τ_{sig} : 69,9%	Pass	Color Limits			
yellow	signal transmittance τ_{sig} : 66,4%	Pass	2°-Observer {			
green	signal transmittance τ_{sig} : 42,8%	Pass	D65	0,4809	0,4855	Fail
			Yellow	0,5826	0,4163	Pass
			Green	0,3264	0,6070	Fail
transmission properties related to traffic signal recognition: Fail						

Australian Standard			AS/NZS 1067:2003 / AMDT 1:2009			Fail
Luminous transmittance (D65) τ_V : 51,6%			Lens category: 1			Limit value
UV (280 - 380nm)	τ_{SUV} : 0,0%	100% UV-Absorption	$\tau_{F(A)max}$ (280 - 315nm): 0,0%	Pass	2,6%	
UVA (315 - 380nm)	τ_{SUVA} : 0,0%		$\tau_{F(A)max}$ (315 - 350nm): 0,0%	Pass	51,6%	
UVB (280 - 315nm)	τ_{SUVB} : 0,0%		$\tau_{SUVAmax}$ (315 - 380nm): 0,0%	Pass	51,6%	
blue light (400 - 500nm)	τ_{sb} : 2,3%		spectral transmittance (450-650nm) τ_{Vmin} : 1,1%	Fail	10,3%	
Signal transmittance:						
red	signal transmittance τ_{sig} : 69,2%		Recognition of signal light Q: 1,34	Pass	0,8	
yellow	signal transmittance τ_{sig} : 66,3%		Recognition of signal light Q: 1,29	Pass	0,8	
green	signal transmittance τ_{sig} : 42,8%		Recognition of signal light Q: 0,83	Pass	0,6	
blue	signal transmittance τ_{sig} : 32,7%		Recognition of signal light Q: 0,63	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 = 0,5411	y = 0,4457	Y = 6,25
CIELAB 1976	L* = 80,71	a* = 14,15	b* = 94,05
HUNTER	L = 76,13	a = 4,88	b = 8,81
10° Observer	x = 0,5503	y = 0,4393	Y = 6,41
CIELAB 1976	L* = 79,80	a* = 16,78	b* = 97,85
HUNTER	L = 75,05	a = 5,99	b = 90,21

Standard illuminant C			
2° Observer	x = 0,4837	y = 0,4820	Y = 5,25
CIELAB 1976	L* = 77,95	a* = 3,13	b* = 97,73
HUNTER	L = 22,91	a = 0,95	b = 15,07
10° Observer	x = 0,4978	y = 0,4727	Y = 5,40
CIELAB 1976	L* = 77,53	a* = 10,48	b* = 97,82
HUNTER	L = 69,60	a = 3,33	b = 152,72

Standard illuminant D65			
2° Observer	x = 0,4809	y = 0,4855	Y = 5,45
CIELAB 1976	L* = 77,02	a* = 5,58	b* = 96,38
HUNTER	L = 71,81	a = 1,70	b = 14,69
10° Observer	x = 0,4953	y = 0,4761	Y = 5,61
CIELAB 1976	L* = 77,87	a* = 12,30	b* = 96,87
HUNTER	L = 69,50	a = 3,96	b = 149,30

Testreport Sunglasses

v = Pass x = Fail

released	v
blocked	
separated	

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