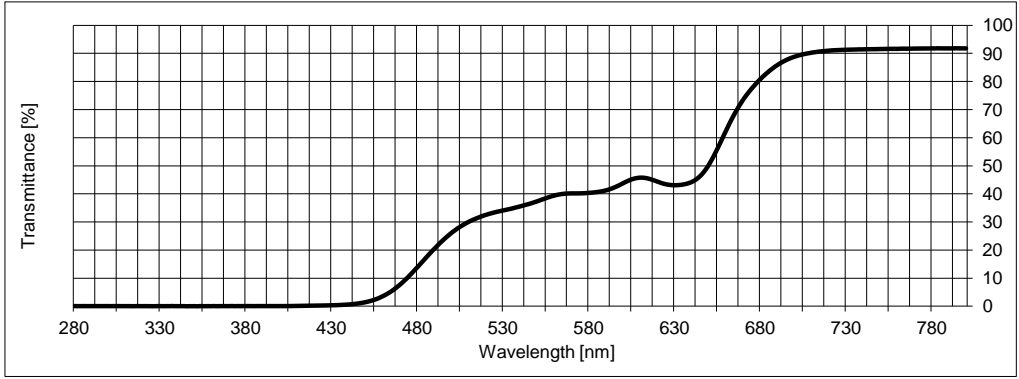


Wavelength [nm]	Transmission [%]
280	0,0
290	0,0
300	0,0
310	0,0
320	0,0
330	0,0
340	0,0
350	0,0
360	0,0
370	0,0
380	0,0
390	0,0
400	0,0
410	0,1
420	0,2
430	0,3
440	0,6
450	1,4
460	3,5
470	7,6
480	13,8
490	20,4
500	26,1
510	30,0
520	32,5
530	34,1
540	35,5
550	37,3
560	39,4
570	40,2
580	40,3
590	41,2
600	43,7
610	45,8
620	44,4
630	43,1
640	44,2
650	50,3
660	62,4
670	73,5
680	80,8
690	85,9
700	88,8
710	90,3
720	91,0
730	91,3
740	91,5
750	91,6
760	91,7
770	91,7
780	91,8
790	91,8
800	91,8



European Standard			DIN EN ISO 12312-1:2014-04			Pass
Luminous transmittance (D65) τ_V :			36,7%	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	$\tau_{SUVAmax}$ (315 - 380nm):	0,0% pass 36,7%
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} :	4,3%	spectral transmittance (475-650nm) τ_{Vmin} :	10,5%	Pass 7,3%
Signal transmittance:						
red	signal transmittance τ_{sig} :	46,6%		Recognition of signal light Q:	1,27	Pass 0,8
yellow	signal transmittance τ_{sig} :	42,5%		Recognition of signal light Q:	1,16	Pass 0,6
green	signal transmittance τ_{sig} :	33,9%		Recognition of signal light Q:	0,92	Pass 0,6
blue	signal transmittance τ_{sig} :	31,4%		Recognition of signal light Q:	0,86	Pass 0,6
transmission properties related to traffic signal recognition: Pass						

American Standard			ANSI Z80.3-2010			Fail
Luminous transmittance (C) τ_V :			36,8%	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 36,8%	Pass 18,4%	
UVB, mean Transmittance	(280 - 315nm)	τ_{SUVB} :	0,0%	Pass 4,6%	Pass 0,4%	
blue light	(380 - 500nm)	τ_{sb} :	4,3%	spectral transmittance (475-650nm) τ_{Vmin} :	10,5%	Pass 7,4%
Signal transmittance:						
<u>Color Limits</u>						
red	signal transmittance τ_{sig} :	49,5%	Pass	2°-Observer {	D65 0,4392 0,4809	Fail Please refer to sheet
yellow	signal transmittance τ_{sig} :	42,4%	Pass		Yellow 0,5888 0,4101	Pass
green	signal transmittance τ_{sig} :	33,8%	Pass		Green 0,2679 0,5898	Pass "Farbort"
transmission properties related to traffic signal recognition: Fail						

Australian Standard			AS/NZS 1067:2003 / AMDT 1:2009			Fail
Luminous transmittance (D65) τ_V :			36,7%	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 36,7%
UVB	(280 - 315nm)	τ_{SUVB} :	0,0%	$\tau_{SUVAmax}$ (315 - 380nm):	0,0%	Pass 36,7%
blue light	(400 - 500nm)	τ_{sb} :	4,4%	spectral transmittance (450-650nm) τ_{Vmin} :	1,4%	Fail 7,3%
Signal transmittance:						
red	signal transmittance τ_{sign} :	46,6%		Recognition of signal light Q:	1,27	Pass 0,8
yellow	signal transmittance τ_{sign} :	42,5%		Recognition of signal light Q:	1,16	Pass 0,8
green	signal transmittance τ_{sign} :	33,9%		Recognition of signal light Q:	0,92	Pass 0,6
blue	signal transmittance τ_{sign} :	31,4%		Recognition of signal light Q:	0,86	Pass 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 = 0,5229	y = 0,4458	Y = 4,26
CIELAB 1976	L* = 69,12	a* = 8,13	b* = 61,29
HUNTER	L = 62,86	a = 2,60	b = 6,36
10° Observer	x = 0,5299	y = 0,4438	Y = 4,41
CIELAB 1976	L* = 68,59	a* = 8,82	b* = 65,29
HUNTER	L = 62,28	a = 2,91	b = 66,76

Standard illuminant C			
2° Observer	x = 0,4424	y = 0,4753	Y = 3,72
CIELAB 1976	L* = 65,67	a* = -6,16	b* = 67,72
HUNTER	L = 19,28	a = -1,71	b = 11,52
10° Observer	x = 0,4532	y = 0,4749	Y = 3,91
CIELAB 1976	L* = 65,27	a* = -2,25	b* = 69,51
HUNTER	L = 59,21	a = -0,66	b = 119,38

Standard illuminant D65			
2° Observer	x = 0,4392	y = 0,4809	Y = 3,88
CIELAB 1976	L* = 67,08	a* = -4,68	b* = 66,67
HUNTER	L = 60,61	a = -1,31	b = 11,22
10° Observer	x = 0,4506	y = 0,4799	Y = 4,08
CIELAB 1976	L* = 65,58	a* = -1,17	b* = 68,78
HUNTER	L = 59,27	a = -0,34	b = 116,71

Testreport Sunglasses

v = Pass x = Fail

released	v
blocked	
separated	

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