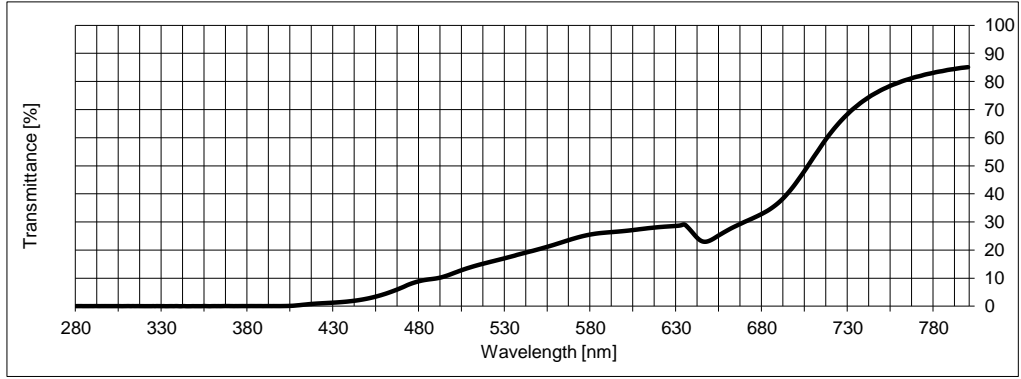


Wavelength [nm]	Transmission [%]
280	0,0
290	0,0
300	0,0
310	0,0
320	0,0
330	0,0
340	0,0
350	0,0
360	0,0
370	0,0
380	0,0
390	0,0
400	0,0
410	0,3
420	0,9
430	1,2
440	1,7
450	2,7
460	4,3
470	6,6
480	8,9
490	9,9
500	11,7
510	13,8
520	15,5
530	17,0
540	18,7
550	20,3
560	22,1
570	24,0
580	25,5
590	26,2
600	26,8
610	27,5
620	28,1
630	28,6
640	25,7
650	23,5
660	27,1
670	30,1
680	32,9
690	37,1
700	44,1
710	53,1
720	61,7
730	68,5
740	73,5
750	77,1
760	79,7
770	81,7
780	83,1
790	84,3
800	85,1



European Standard		DIN EN ISO 12312-1:2014-04		Pass
Luminous transmittance (D65) τ_v :		20,7%	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 20,7%
UVB (280 - 315nm)	τ_{SUVB} : 0,0%	100% UVB-Protection	$\tau_{SUVBmax}$ (280 - 315nm): 0,0%	pass 1,0%
blue light (380 - 500nm)	τ_{sb} : 3,8%	spectral transmittance (475-650nm) τ_{Vmin} :	7,9%	Pass 4,1%
Signal transmittance:				
red	signal transmittance τ_{sig} :	27,4%	Recognition of signal light Q:	1,33 Pass 0,8
yellow	signal transmittance τ_{sig} :	25,1%	Recognition of signal light Q:	1,22 Pass 0,6
green	signal transmittance τ_{sig} :	18,0%	Recognition of signal light Q:	0,87 Pass 0,6
blue	signal transmittance τ_{sig} :	16,0%	Recognition of signal light Q:	0,78 Pass 0,6
transmission properties related to traffic signal recognition: Pass				

American Standard		ANSI Z80.3-2010		Fail
Luminous transmittance (C) τ_v :		20,7%	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	20,7%	Pass 10,4%
UVB, mean Transmittance (280 - 315nm)	τ_{SUVB} : 0,0%	Pass	2,6%	Pass 0,2%
blue light (380 - 500nm)	τ_{sb} : 3,8%	spectral transmittance (475-650nm) τ_{Vmin} :	7,9%	Pass 4,1%
Signal transmittance:				
red	signal transmittance τ_{sig} :	27,7% Pass	2°-Observer { D65 0,4407 0,4532 Yellow 0,5884 0,4105 Green 0,2779 0,5505	Fail Please refer to sheet "Farbort"
yellow	signal transmittance τ_{sig} :	25,1% Pass		
green	signal transmittance τ_{sig} :	18,0% Pass		
transmission properties related to traffic signal recognition: Fail				

Australian Standard		AS/NZS 1067:2003 / AMDT 1:2009		Fail
Luminous transmittance (D65) τ_v :		20,7%	Lens category: 2	Limit value
UV (280 - 380nm)	τ_{SUV} : 0,0%	100% UV-Absorption	$\tau_{F(A)max}$ (280 - 315nm): 0,0%	Pass 1,0%
UVA (315 - 380nm)	τ_{SUVA} : 0,0%		$\tau_{F(A)max}$ (315 - 350nm): 0,0%	Pass 20,7%
UVB (280 - 315nm)	τ_{SUVB} : 0,0%		$\tau_{SUVAmax}$ (315 - 380nm): 0,0%	Pass 20,7%
blue light (400 - 500nm)	τ_{sb} : 3,8%	spectral transmittance (450-650nm) τ_{Vmin} :	2,7%	Fail 4,1%
Signal transmittance:				
red	signal transmittance τ_{sign} :	27,4%	Recognition of signal light Q:	1,33 Pass 0,8
yellow	signal transmittance τ_{sign} :	25,1%	Recognition of signal light Q:	1,22 Pass 0,8
green	signal transmittance τ_{sign} :	18,0%	Recognition of signal light Q:	0,87 Pass 0,6
blue	signal transmittance τ_{sign} :	16,0%	Recognition of signal light Q:	0,78 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 = 0,5266	y = 0,4361	Y = 2,45
CIELAB 1976	L* = 54,72	a* = 9,80	b* = 46,12
HUNTER	L = 47,61	a = 2,88	b = 4,56
10° Observer	x = 0,5337	y = 0,4330	Y = 2,53
CIELAB 1976	L* = 54,28	a* = 10,60	b* = 48,17
HUNTER	L = 47,15	a = 3,22	b = 47,50

Standard illuminant C			
2° Observer	x = 0,4423	y = 0,4473	Y = 2,10
CIELAB 1976	L* = 52,86	a* = 0,82	b* = 48,13
HUNTER	L = 14,48	a = 0,21	b = 8,02
10° Observer	x = 0,4516	y = 0,4456	Y = 2,21
CIELAB 1976	L* = 52,51	a* = 3,99	b* = 48,52
HUNTER	L = 44,47	a = 1,08	b = 82,62

Standard illuminant D65			
2° Observer	x = 0,4407	y = 0,4532	Y = 2,19
CIELAB 1976	L* = 52,59	a* = 2,31	b* = 47,40
HUNTER	L = 45,47	a = 0,60	b = 7,80
10° Observer	x = 0,4506	y = 0,4510	Y = 2,30
CIELAB 1976	L* = 52,76	a* = 5,11	b* = 48,02
HUNTER	L = 44,46	a = 1,40	b = 80,62

Testreport Sunglasses

v = Pass x = Fail

released	v
blocked	
separated	

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