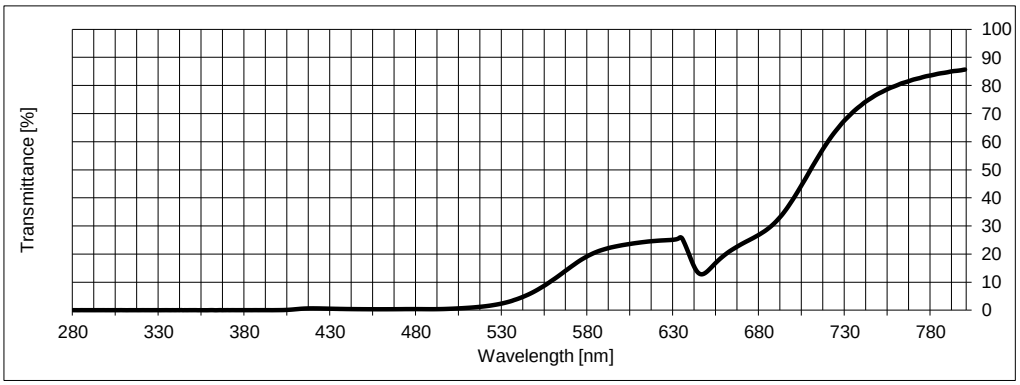
Art.-No.: 1662511P

Photospektrometer Testsheet

ESCHENBACH

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	0,6
430	0,5
440	0,4
450	0,3
460	0,3
470	0,4
480	0,4
490	0,4
500	0,5
510	0,8
520	1,4
530	2,4
540	4,2
550	7,0
560	10,9
570	15,3
580	19,3
590	21,8
600	23,1
610	24,1
620	24,7
630	25,1
640	18,5
650	14,0
660	19,7
670	23,6
680	26,9
690	31,7
700	39,8
710	50,1
720	60,0
730	67,8
740	73,3
750	77,3
760	80,0
770	82,2
780	83,6
790	84,8
800	85,7



European Standard — DIN EN 1836:2005+A1:2007 (D) — Pass

Luminous transmittance (D65) τ_V:		10,9%				Filter category:	3		Limit value
UV	(280 - 380nm)	τ_{SUV}:	0,0%	100% UV-Absorption	$\tau_{F(\lambda)max}$	(280 - 315nm):	0,0%	Pass	1,1%
UVA	(315 - 380nm)	τ_{SUVA}:	0,0%		$\tau_{F(\lambda)max}$	(315 - 350nm):	0,0%	Pass	5,5%
UVB	(280 - 315nm)	τ_{SUVB}:	0,0%		$\tau_{SUVAmax}$	(315 - 380nm):	0,0%	Pass	5,5%
blue light	(380 - 500nm)	τ_{sb}:	0,4%		spectral transmittance (500-650nm) $\tau_{V\,min}$:		0,5%	Fail	2,2%
Signal transmittance:									
red	signal transmittance	τ_{sig}:	22,9%		Recognition of signal light Q:		2,10	Pass	0,8
yellow	signal transmittance	τ_{sig}:	18,1%		Recognition of signal light Q:		1,66	Pass	0,8
green	signal transmittance	τ_{sig}:	5,9%		Recognition of signal light Q:		0,54	Fail	0,6
blue	signal transmittance	τ_{sig}:	5,2%		Recognition of signal light Q:		0,48	Pass	0,4
					transmission properties related to traffic signal recognition:			Fail	

American Standard — ANSI Z80.3-2010 — Fail

Luminous transmittance (C) τ_V:		11,1%		primary function:	General Purpose lens or shield		shade:		medium to dark
						Limit value normal use			Limit value high exposure
UVA, mean Transmittance	(315 - 380nm)	τ_{SUVA}:	0,0%			Pass	11,1%	Pass	5,5%
UVB, mean Transmittance	(280 - 315nm)	τ_{SUVB}:	0,0%			Pass	1,4%	Pass	0,1%
blue light	(380 - 500nm)	τ_{sb}:	0,4%		spectral transmittance (475-650nm) $\tau_{V\,min}$:		0,4%	Fail	2,2%
Signal transmittance:					Color Limits		x	y	
red	signal transmittance	τ_{sig}:	22,1%	Pass	2°-Observer	D65	0,5591	0,4223	Fail
yellow	signal transmittance	τ_{sig}:	18,0%	Pass		Yellow	0,6101	0,3893	Pass
green	signal transmittance	τ_{sig}:	6,1%	Pass		Green	0,4300	0,5316	Fail
					transmission properties related to traffic signal recognition:				Fail

Please refer to sheet "Farbort"

Australian Standard — AS/NZS 1067:2003 / AMDT 1:2009 — Fail

Luminous transmittance (D65) τ_V:		10,9%				Lens category:	3		Limit value
UV	(280 - 380nm)	τ_{SUV}:	0,0%	100% UV-Absorption	$\tau_{F(\lambda)max}$	(280 - 315nm):	0,0%	Pass	0,5%
UVA	(315 - 380nm)	τ_{SUVA}:	0,0%		$\tau_{F(\lambda)max}$	(315 - 350nm):	0,0%	Pass	5,5%
UVB	(280 - 315nm)	τ_{SUVB}:	0,0%		$\tau_{SUVAmax}$	(315 - 380nm):	0,0%	Pass	5,5%
blue light	(400 - 500nm)	τ_{sb}:	0,4%		spectral transmittance (450-650nm) $\tau_{V\,min}$:		0,3%	Fail	2,2%
Signal transmittance:									
red	signal transmittance	τ_{sign}:	22,9%		Recognition of signal light Q:		2,10	Pass	0,8
yellow	signal transmittance	τ_{sign}:	18,1%		Recognition of signal light Q:		1,66	Pass	0,8
green	signal transmittance	τ_{sign}:	5,9%		Recognition of signal light Q:		0,54	Fail	0,6
blue	signal transmittance	τ_{sign}:	5,2%		Recognition of signal light Q:		0,48	Fail	0,7

Demand on lenses for use by drivers at night according DIN EN ISO 14889:2009-07: Fail

Testreport Sunglasses

v = Pass x = Fail

Quantity		

Frame

color correctness		
surface / col.		
soldering		
adjustment		
nickel test		
form / dimension		

Lenses

color		
size / form		
opt. quality		
UV-index / vertex power		
polarisation		
decentration		
random test		
Sign		

released		
blocked		
separated		

Colormetric Observer according DIN 5033

Standard illuminant A			
2° Observer	x = 0,5960	y = 0,3987	Y = 1,51
CIELAB 1976	L*= 44,17	a*= 28,06	b*= 69,24
HUNTER	L = 37,35	a = 8,20	b = 4,54
10° Observer	x = 0,6004	y = 0,3950	Y = 1,54
CIELAB 1976	L*= 43,59	a*= 28,25	b*= 69,93
HUNTER	L = 36,82	a = 8,51	b = 45,93

Standard illuminant C			
2° Observer	x = 0,5590	y = 0,4214	Y = 1,12
CIELAB 1976	L*= 45,64	a*= 25,47	b*= 63,35
HUNTER	L = 10,59	a = 6,54	b = 7,12
10° Observer	x = 0,5668	y = 0,4136	Y = 1,15
CIELAB 1976	L*= 44,95	a*= 28,35	b*= 61,46
HUNTER	L = 32,09	a = 7,63	b = 71,37

Standard illuminant D65			
2° Observer	x = 0,5591	y = 0,4223	Y = 1,15
CIELAB 1976	L*= 39,42	a*= 27,92	b*= 62,77
HUNTER	L = 33,02	a = 7,27	b = 6,92
10° Observer	x = 0,5670	y = 0,4146	Y = 1,18
CIELAB 1976	L*= 45,16	a*= 30,30	b*= 61,07
HUNTER	L = 31,88	a = 8,27	b = 69,54