


OPTICAL GLASS LENS		Polarized glass lenses		CUSTOMER		BARBERINI SPA	
PolaACE IR/Gr.40% - AR 99 cc				TECHNICAL DATA SHEET N.		NO2974	
				GLASS CODE:		AH01Q5R0	
				DATE:		14/11/2016	
Base:	6	Coating:	AR 99 cc				
Thickness:	1.8 mm	Polarization Ratio:	> 25	(min 8:1)			
Hardening:	Chemically	Degree of Polarization:	0,99			Photochromic Ratio:	0,00%
Optical Centre:	Centre	Reflection factor:	PASS 1,47%	(max 2.5%)		Photochromic Interval:	0,00

This sunglare filter is conform to the following International Norm:

European Norm: ISO 12312-1 2013

		Filter Category:	2	Medium tint			
							
TV	(mean 380 ÷ 780 nm)	22,74%					
TSB	(mean 380 ÷ 500 nm)	13,20%					
TSIR	(mean 780 ÷ 2000 nm)	12,42%	(max TV)	IR PROTECTION			
TSUV	(mean 280 ÷ 380 nm)	0,00%					
TSUVA	(mean 315 ÷ 380 nm)	0,00%	(max 0,5 TV)	11,37%	PASS		
TSUVB	(mean 280 ÷ 315 nm)	0,00%	(max 0,05 TV)	1,13%	PASS		
TVIS	(peak min 475 ÷ 650 nm)	11,59%	(min 0,2 Tv)	4,54%	PASS		
	Qgreen	1,05	(min. = 0,60)		PASS		
	Qyellow	0,97	(min. = 0,60)		PASS		
	Qred	0,95	(min. = 0,80)		PASS		
	Qblue	0,91	(min. = 0,60)		PASS		

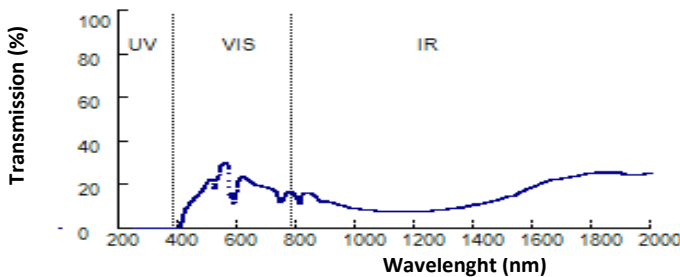
Suitable for driving and road use - Not suitable for driving at night or under condition of dull light

American Norm: ANSI Z80.3-2010

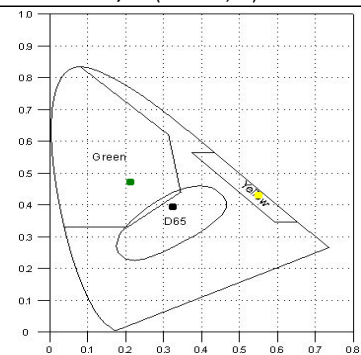
				Primary function and shade general purpose			
TV	(mean 380 ÷ 780 nm)	22,70%	(8<=Tv<40)	PASS		Medium to dark	
TSB	(mean 380 ÷ 500 nm)	13,20%					
TSUVB	(mean 280 ÷ 315 nm)			Color limits:			
	normal use	0,00%	(<=1/8Tv)	2,83%	PASS	Chromaticity (D65)	PASS
	high and prolonged exposure	0,00%	(max 1%)	0,22%	PASS	Yellow traffic signals	x=0,5665 y=0,4319
TSUVA	(mean 315 ÷ 380 nm)					Green traffic signals	x=0,2180 y=0,4737
	normal use	0,00%	(max Tv)	22,70%	PASS	Traffic signal transmittance:	
	high and prolonged exposure	0,00%	(max 0.5 TV)	11,35%	PASS	Red signal	21,94% (>= 8%)
TSIR	(mean 780 ÷ 1400 nm)	11,13%	Not Calculated			Yellow signal	22,15% (>= 6%)
TVIS	(peak min 475 ÷ 650 nm)	11,59%	(min 0,2 TV)	4,54%	PASS	Green signal	23,50% (>= 6%)

Australian Norm: AS/NZS 1067:2009

TV	(mean 380 ÷ 780 nm)	22,74%					
TSB	(mean 380 ÷ 500 nm)	13,20%					
TSIR	(mean 780 ÷ 2000 nm)	12,42%					
TSUV	(mean 280 ÷ 400 nm)	0,00%					
TSUVA	(mean 315 ÷ 400 nm)	0,00%	(max Tv)	22,74%	PASS	Qgreen	1,04 (min. = 0,60)
TSUVB	(mean 280 ÷ 315 nm)	0,00%	(max Tv)	1,13%	PASS	Qyellow	0,96 (min. = 0,80)
TSUVB1	(peak max 315 ÷ 350 nm)	0,00%	(max 0,5 Tv)	11,37%	PASS	Qred	0,95 (min. = 0,80)
TVIS	(peak min 450 ÷ 650 nm)	13,68%	(min 0,2 TV)	4,54%	PASS	Qblue	0,94 (min. = 0,70)



D65 : x=0,3329
y=0,3965
C : x=0,3316
y=0,3848



Spectral Data:

UV				VIS				IR					
nm	%	nm	%	nm	%	nm	%	nm	%	nm	%	nm	%
200	0,00	300	0,00	390	0,00	490	20,08	590	14,84	690	19,07	800	13,79
210	0,00	310	0,00	400	0,35	500	21,98	600	21,52	700	18,96	850	15,81
220	0,00	320	0,00	410	3,87	510	22,69	610	23,31	710	18,43	900	12,54
230	0,00	330	0,00	420	8,11	520	18,56	620	23,85	720	17,77	950	10,63
240	0,00	340	0,00	430	10,39	530	23,08	630	22,72	730	16,57	1000	9,25
250	0,00	350	0,00	440	12,34	540	28,33	640	21,79	740	12,33	1050	8,42
260	0,00	360	0,00	450	13,68	550	30,17	650	20,47	750	12,84	1100	8,01
270	0,00	370	0,00	460	14,89	560	30,39	660	20,01	760	15,47	1150	7,86
280	0,00	380	0,00	470	16,30	570	18,90	670	19,77	770	16,89	1200	7,90
290	0,00			480	18,19	580	16,69	680	19,33	780	17,23		

Data subject to change without notice

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