


OPTICAL GLASS LENS		Polarized glass lenses		235	CUSTOMER	BARBERINI SPA
PolaACE IR/ Gr.35% - AR 99 cc					TECHNICAL DATA SHEET N.	NO2617
Base:	6	Coating:	AR 99 cc		GLASS CODE:	AH01R5R0
Thickness:	1.8 mm	Polarization Ratio:	> 25	(min 8:1)	DATE:	20/10/2015
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)	19,89%		
TSB	(mean 380 ÷ 500 nm)	13,79%		
TSIR	(mean 780 ÷ 2000 nm)	11,46%	(max TV)	IR PROTECTION
TSUV	(mean 280 ÷ 380 nm)	0,00%		
TSUVA	(mean 315 ÷ 380 nm)	0,00%	(max 0,5 TV)	9,94% PASS
TSUVB	(mean 280 ÷ 315 nm)	0,00%	(max 0,05 TV)	0,99% PASS
TVIS	(peak min 475 ÷ 650 nm)	9,42%	(min 0,2 Tv)	3,97% PASS
	Qgreen	1,06	(min. = 0,60)	PASS
	Qyellow	0,94	(min. = 0,60)	PASS
	Qred	0,92	(min. = 0,80)	PASS
	Qblue	0,99	(min. = 0,60)	PASS

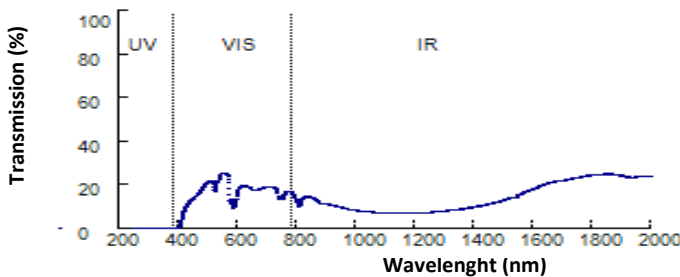
Suitable for driving and road use - Not suitable for driving at night or under condition of dull light

**American Norm: ANSI Z80.3-2010**

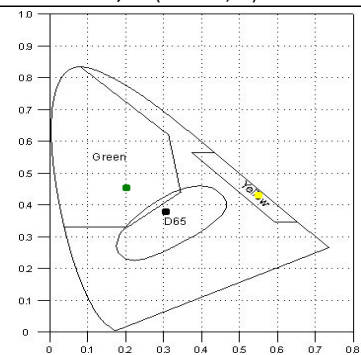
				Primary function and shade general purpose
TV	(mean 380 ÷ 780 nm)	19,84%	(8<=Tv<40)	PASS Medium to dark
TSB	(mean 380 ÷ 500 nm)	13,79%		
TSUVB	(mean 280 ÷ 315 nm)			Color limits:
	normal use	0,00%	(<=1/8Tv)	2,48% PASS Chromaticity (D65) PASS
	high and prolonged exposure	0,00%	(max 1%)	0,19% PASS Yellow traffic signals x=0,5668 y=0,4316 PASS
TSUVA	(mean 315 ÷ 380 nm)			Green traffic signals x=0,2069 y=0,4545 PASS
	normal use	0,00%	(max Tv)	19,84% PASS Traffic signal transmittance:
	high and prolonged exposure	0,00%	(max 0.5 TV)	9,92% PASS Red signal 18,97% (>= 8%) PASS
TSIR	(mean 780 ÷ 1400 nm)	10,17%	No requirement	Yellow signal 18,58% (>= 6%) PASS
TVIS	(peak min 475 ÷ 650 nm)	9,42%	(min 0,2 TV)	3,97% PASS Green signal 21,02% (>= 6%) PASS

**Australian Norm: AS/NZS 1067:2009**

TV	(mean 380 ÷ 780 nm)	19,89%			Filter Category:	2
TSB	(mean 380 ÷ 500 nm)	13,79%				Medium sunglare reduction
TSIR	(mean 780 ÷ 2000 nm)	11,46%				Not Suitable for driving at night
TSUV	(mean 280 ÷ 400 nm)	0,00%				
TSUVA	(mean 315 ÷ 400 nm)	0,01%	(max Tv)	19,89%	PASS	Qgreen 1,06 (min. = 0,60) PASS
TSUVB	(mean 280 ÷ 315 nm)	0,00%	(max Tv)	0,99%	PASS	Qyellow 0,92 (min. = 0,80) PASS
TSUVB1	(peak max 315 ÷ 350 nm)	0,00%	(max 0,5 Tv)	9,94%	PASS	Qred 0,92 (min. = 0,80) PASS
TVIS	(peak min 450 ÷ 650 nm)	12,06%	(min 0,2 TV)	3,97%	PASS	Qblue 1,01 (min. = 0,70) PASS



D65 : x=0,3154  
y=0,3791  
C : x=0,3138  
y=0,3666



**Spectral Data:**

UV				VIS				IR					
nm	%	nm	%	nm	%	nm	%	nm	%	nm	%	nm	%
200	0,00	300	0,00	390	0,00	490	20,32	590	12,07	690	18,95	800	12,58
210	0,00	310	0,00	400	0,55	500	21,82	600	17,52	700	19,48	850	14,26
220	0,00	320	0,00	410	4,75	510	22,00	610	19,18	710	19,49	900	11,43
230	0,00	330	0,00	420	9,15	520	17,28	620	20,06	720	19,21	950	9,74
240	0,00	340	0,00	430	11,19	530	20,93	630	19,45	730	18,14	1000	8,44
250	0,00	350	0,00	440	12,96	540	24,90	640	18,76	740	13,44	1050	7,66
260	0,00	360	0,00	450	14,19	550	25,73	650	17,75	750	13,86	1100	7,28
270	0,00	370	0,00	460	15,30	560	25,49	660	17,73	760	16,38	1150	7,14
280	0,00	380	0,00	470	16,74	570	15,63	670	18,14	770	17,25	1200	7,18
290	0,00			480	18,65	580	13,77	680	18,47	780	16,87		

Data subject to change without notice

*De Luca Alfonso*  
Responsible Alfonso De Luca