


OPTICAL GLASS LENS		Polarized glass lenses		44	CUSTOMER	BARBERINI SPA
PolaACE/GS.32% - AR 99 cc					TECHNICAL DATA SHEET N.	NO2779
Base:	6	Coating:	AR 99 cc		GLASS CODE:	AH01K5c0
Thickness:	1.8 mm	Polarization Ratio:	> 25	(min 8:1)	DATE:	31/03/2016
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: <b>2</b>		<b>Medium tint</b>	
<b>TV</b> (mean 380 ÷ 780 nm)	<b>24,06%</b>			
<b>TSB</b> (mean 380 ÷ 500 nm)	<b>26,26%</b>			
<b>TSIR</b> (mean 780 ÷ 2000 nm)	<b>77,69%</b> (max TV)		<b>NO IR PROTECTION</b>	
<b>TSUV</b> (mean 280 ÷ 380 nm)	<b>0,00%</b>			
<b>TSUVA</b> (mean 315 ÷ 380 nm)	<b>0,00%</b> (max 0,5 TV)	12,03%	<b>PASS</b>	
<b>TSUVB</b> (mean 280 ÷ 315 nm)	<b>0,00%</b> (max 0,05 TV)	1,2%	<b>PASS</b>	
<b>TVIS</b> (peak min 475 ÷ 650 nm)	<b>11,78%</b> (min 0,2 Tv)	4,81%	<b>PASS</b>	
<b>Qgreen</b>	<b>1,00</b> (min. = 0,60)		<b>PASS</b>	
<b>Qyellow</b>	<b>0,97</b> (min. = 0,60)		<b>PASS</b>	
<b>Qred</b>	<b>1,09</b> (min. = 0,80)		<b>PASS</b>	
<b>Qblue</b>	<b>1,13</b> (min. = 0,60)		<b>PASS</b>	

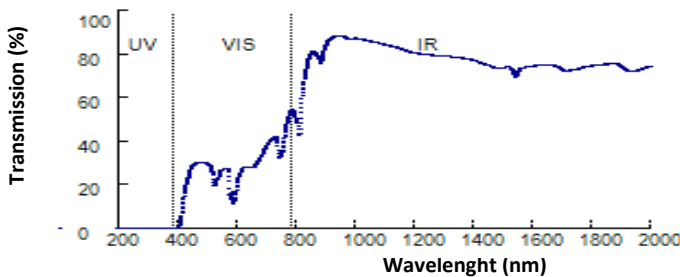
Suitable for driving and road use - Not suitable for driving at night or under condition of dull light

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

				Primary function and shade general purpose
<b>TV</b> (mean 380 ÷ 780 nm)	<b>24,08%</b> (8<=Tv<40)		<b>PASS</b>	Medium to dark
<b>TSB</b> (mean 380 ÷ 500 nm)	<b>26,26%</b>			
<b>TSUVB</b> (mean 280 ÷ 315 nm)				<i>Color limits:</i>
normal use	<b>0,00%</b> (<=1/8Tv)	3,01%	<b>PASS</b>	Chromaticity (D65)
high and prolonged exposure	<b>0,00%</b> (max 1%)	0,24%	<b>PASS</b>	Yellow traffic signals <b>x=0,5851 y=0,4135</b> <b>PASS</b>
<b>TSUVA</b> (mean 315 ÷ 380 nm)				Green traffic signals <b>x=0,1939 y=0,3764</b> <b>PASS</b>
normal use	<b>0,00%</b> (max Tv)	24,08%	<b>PASS</b>	<i>Traffic signal transmittance:</i>
high and prolonged exposure	<b>0,00%</b> (max 0.5 TV)	12,04%	<b>PASS</b>	Red signal <b>28,88%</b> (>= 8%) <b>PASS</b>
<b>TSIR</b> (mean 780 ÷ 1400 nm)	<b>78,38%</b> No requirement			Yellow signal <b>23,33%</b> (>= 6%) <b>PASS</b>
<b>TVIS</b> (peak min 475 ÷ 650 nm)	<b>11,79%</b> (min 0,2 TV)	4,81%	<b>PASS</b>	Green signal <b>24,56%</b> (>= 6%) <b>PASS</b>

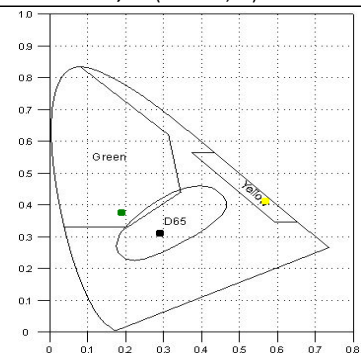
**Australian Norm: AS/NZS 1067:2009**

<b>TV</b> (mean 380 ÷ 780 nm)	<b>24,06%</b>			Filter Category: <b>2</b>
<b>TSB</b> (mean 380 ÷ 500 nm)	<b>26,26%</b>			Medium sunglare reduction
<b>TSIR</b> (mean 780 ÷ 2000 nm)	<b>77,69%</b>			Not Suitable for driving at night
<b>TSUV</b> (mean 280 ÷ 400 nm)	<b>0,01%</b>			
<b>TSUVA</b> (mean 315 ÷ 400 nm)	<b>0,01%</b> (max Tv)	24,06%	<b>PASS</b>	<b>Qgreen</b> <b>1,02</b> (min. = 0,60) <b>PASS</b>
<b>TSUVB</b> (mean 280 ÷ 315 nm)	<b>0,00%</b> (max Tv)	1,2%	<b>PASS</b>	<b>Qyellow</b> <b>0,96</b> (min. = 0,80) <b>PASS</b>
<b>TSUVB1</b> (peak max 315 ÷ 350 nm)	<b>0,00%</b> (max 0,5 Tv)	12,03%	<b>PASS</b>	<b>Qred</b> <b>1,09</b> (min. = 0,80) <b>PASS</b>
<b>TVIS</b> (peak min 450 ÷ 650 nm)	<b>15,31%</b> (min 0,2 TV)	4,81%	<b>PASS</b>	<b>Qblue</b> <b>1,11</b> (min. = 0,70) <b>PASS</b>



D65 : **x=0,2980**  
**y=0,3122**

C : **x=0,2952**  
**y=0,2996**



**Spectral Data:**

UV				VIS				IR					
nm	%	nm	%	nm	%	nm	%	nm	%	nm	%	nm	%
200	0,00	300	0,00	390	0,00	490	30,20	590	15,32	690	36,38	800	48,67
210	0,00	310	0,00	400	0,74	500	29,53	600	23,09	700	39,07	850	81,11
220	0,00	320	0,00	410	8,12	510	27,05	610	26,14	710	40,74	900	85,29
230	0,00	330	0,00	420	17,73	520	19,78	620	28,23	720	41,92	950	88,56
240	0,00	340	0,00	430	23,22	530	22,80	630	28,34	730	41,58	1000	87,49
250	0,00	350	0,00	440	27,62	540	26,46	640	28,44	740	32,44	1050	86,16
260	0,00	360	0,00	450	29,53	550	27,28	650	28,14	750	35,47	1100	84,57
270	0,00	370	0,00	460	30,26	560	27,77	660	29,49	760	44,97	1150	82,75
280	0,00	380	0,00	470	30,50	570	18,48	670	31,68	770	51,13	1200	80,71
290	0,00			480	30,55	580	16,78	680	33,82	780	54,54		

Data subject to change without notice

*De Luca Alfonso*  
Responsible Alfonso De Luca