


OPTICAL GLASS LENS		Polarized glass lenses		14	CUSTOMER	BARBERINI SPA
PolaACE IR/GS.25% - AR 99 cc					TECHNICAL DATA SHEET N.	NO2508
Base:	6	Coating:	AR 99 cc		GLASS CODE:	AH01U5R0
Thickness:	1.8 mm	Polarization Ratio:	> 25	(min 8:1)	DATE:	16/05/2015
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: <b>3</b>		<b>Dark tint</b>	
<b>TV</b> (mean 380 ÷ 780 nm)	<b>13,51%</b>			
<b>TSB</b> (mean 380 ÷ 500 nm)	<b>16,96%</b>			
<b>TSIR</b> (mean 780 ÷ 2000 nm)	<b>12,09%</b> (max TV)		<b>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)	6,75%	<b>PASS</b>	
<b>TSUVB</b> (mean 280 ÷ 315 nm)	<b>0,00%</b> (max 1%)	0,13%	<b>PASS</b>	
<b>TVIS</b> (peak min 475 ÷ 650 nm)	<b>6,48%</b> (min 0,2 Tv)	2,70%	<b>PASS</b>	
<b>Qgreen</b>	<b>1,03</b> (min. = 0,60)		<b>PASS</b>	
<b>Qyellow</b>	<b>0,91</b> (min. = 0,60)		<b>PASS</b>	
<b>Qred</b>	<b>0,90</b> (min. = 0,80)		<b>PASS</b>	
<b>Qblue</b>	<b>1,20</b> (min. = 0,60)		<b>PASS</b>	

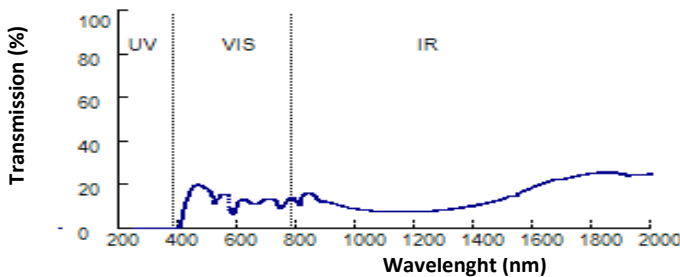
Suitable for driving and road use - Not suitable for driving at night or under condition of dull light

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

				Primary function and shade general purpose
<b>TV</b> (mean 380 ÷ 780 nm)	<b>13,51%</b> (8<=Tv<40)		<b>PASS</b>	Medium to dark
<b>TSB</b> (mean 380 ÷ 500 nm)	<b>16,96%</b>			
<b>TSUVB</b> (mean 280 ÷ 315 nm)				<i>Color limits:</i>
normal use	<b>0,00%</b> (<=1/8Tv)	1,68%	<b>PASS</b>	Chromaticity (D65)
high and prolonged exposure	<b>0,00%</b> (max 1%)	0,13%	<b>PASS</b>	Yellow traffic signals <b>x=0,5705 y=0,4280</b> <b>PASS</b>
<b>TSUVA</b> (mean 315 ÷ 380 nm)				Green traffic signals <b>x=0,1874 y=0,3587</b> <b>PASS</b>
normal use	<b>0,00%</b> (max Tv)	13,51%	<b>PASS</b>	<i>Traffic signal transmittance:</i>
high and prolonged exposure	<b>0,00%</b> (max 0.5 TV)	6,75%	<b>PASS</b>	Red signal <b>12,41%</b> (>= 8%) <b>PASS</b>
<b>TSIR</b> (mean 780 ÷ 1400 nm)	<b>10,76%</b> No requirement			Yellow signal <b>12,20%</b> (>= 6%) <b>PASS</b>
<b>TVIS</b> (peak min 475 ÷ 650 nm)	<b>6,48%</b> (min 0,2 TV)	2,70%	<b>PASS</b>	Green signal <b>14,27%</b> (>= 6%) <b>PASS</b>

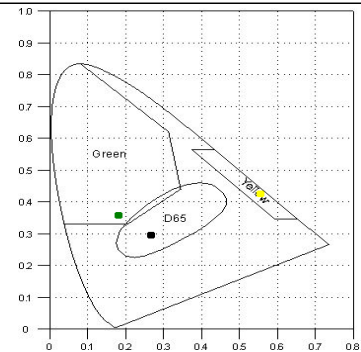
**Australian Norm: AS/NZS 1067:2009**

<b>TV</b> (mean 380 ÷ 780 nm)	<b>13,51%</b>			Filter Category: <b>3</b>
<b>TSB</b> (mean 380 ÷ 500 nm)	<b>16,96%</b>			High sunglare reduction
<b>TSIR</b> (mean 780 ÷ 2000 nm)	<b>12,09%</b>			Not Suitable for driving at night
<b>TSUV</b> (mean 280 ÷ 400 nm)	<b>0,00%</b>			
<b>TSUVA</b> (mean 315 ÷ 400 nm)	<b>0,01%</b> (0,5 Tv)	6,75%	<b>PASS</b>	<b>Qgreen</b> <b>1,05</b> (min. = 0,60) <b>PASS</b>
<b>TSUVB</b> (mean 280 ÷ 315 nm)	<b>0,00%</b> (0,5 Tv)	0,67%	<b>PASS</b>	<b>Qyellow</b> <b>0,89</b> (min. = 0,80) <b>PASS</b>
<b>TSUVB1</b> (peak max 315 ÷ 350 nm)	<b>0,00%</b> (max 0,5 Tv)	6,75%	<b>PASS</b>	<b>Qred</b> <b>0,91</b> (min. = 0,80) <b>PASS</b>
<b>TVIS</b> (peak min 450 ÷ 650 nm)	<b>8,40%</b> (min 0,2 Tv)	2,70%	<b>PASS</b>	<b>Qblue</b> <b>1,13</b> (min. = 0,70) <b>PASS</b>



D65 : **x=0,2747**  
**y=0,2977**

C : **x=0,2718**  
**y=0,2848**



**Spectral Data:**

UV				VIS				IR					
nm	%	nm	%	nm	%	nm	%	nm	%	nm	%	nm	%
200	0,00	300	0,00	390	0,00	490	18,77	590	8,41	690	13,21	800	12,44
210	0,00	310	0,00	400	0,44	500	17,71	600	12,23	700	13,71	850	15,77
220	0,00	320	0,00	410	4,99	510	15,77	610	13,21	710	13,64	900	12,38
230	0,00	330	0,00	420	10,98	520	11,34	620	13,52	720	13,32	950	10,48
240	0,00	340	0,00	430	14,59	530	13,26	630	12,77	730	12,52	1000	9,08
250	0,00	350	0,00	440	17,73	540	15,41	640	12,02	740	9,27	1050	8,35
260	0,00	360	0,00	450	19,48	550	15,71	650	11,20	750	9,71	1100	7,87
270	0,00	370	0,00	460	20,20	560	15,96	660	11,24	760	11,82	1150	7,75
280	0,00	380	0,00	470	20,06	570	10,22	670	11,82	770	13,17	1200	7,77
290	0,00			480	19,57	580	9,44	680	12,50	780	14,00		

Data subject to change without notice

*De Luca Alfonso*  
Responsible Alfonso De Luca