


OPTICAL GLASS LENS		Polarized glass lenses		1		CUSTOMER		BARBERINI SPA	
PolaBrown/Br.27% - AR 99 cc						TECHNICAL DATA SHEET N.		NO2582	
Base:	6	Coating:	AR 99 cc	(min 8:1)		GLASS CODE:		P201B5c0	
Thickness:	1.8 mm	Polarization Ratio:	> 25			DATE:		16/07/2015	
Hardening:	Chemically	Degree of Polarization:	0,99	(max 2.5%)		Photochromic Ratio:		0,00%	
Optical Centre:	Centre	Reflection factor:	PASS 1,47%			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>14,25%</b>				
<b>TSB</b>	(mean 380 ÷ 500 nm)	<b>5,54%</b>				
<b>TSIR</b>	(mean 780 ÷ 2000 nm)	<b>25,16%</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)	7,12%	<b>PASS</b>	
<b>TSUVB</b>	(mean 280 ÷ 315 nm)	<b>0,00%</b>	(max 1%)	0,14%	<b>PASS</b>	
<b>TVIS</b>	(peak min 475 ÷ 650 nm)	<b>7,13%</b>	(min 0,2 Tv)	2,85%	<b>PASS</b>	
	<b>Qgreen</b>	<b>0,90</b>	(min. = 0,60)		<b>PASS</b>	
	<b>Qyellow</b>	<b>1,17</b>	(min. = 0,60)		<b>PASS</b>	
	<b>Qred</b>	<b>1,32</b>	(min. = 0,80)		<b>PASS</b>	
	<b>Qblue</b>	<b>0,69</b>	(min. = 0,60)		<b>PASS</b>	

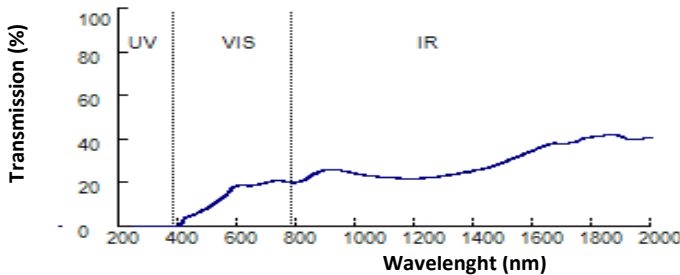
Suitable for driving and road use - Not suitable for driving at night or under condition of dull light

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

				Primary function and shade general purpose	
<b>TV</b>	(mean 380 ÷ 780 nm)	<b>14,31%</b>	(8<=Tv<40)	<b>PASS</b>	Medium to dark
<b>TSB</b>	(mean 380 ÷ 500 nm)	<b>5,54%</b>			
<b>TSUVB</b>	(mean 280 ÷ 315 nm)			Color limits:	
	normal use	<b>0,00%</b>	(<=1/8Tv)	1,78%	<b>PASS</b> Chromaticity (D65)
	high and prolonged exposure	<b>0,00%</b>	(max 1%)	0,14%	<b>PASS</b> Yellow traffic signals <b>x=0,5897 y=0,4092</b> <b>PASS</b>
<b>TSUVA</b>	(mean 315 ÷ 380 nm)			Green traffic signals <b>x=0,2605 y=0,4880</b> <b>PASS</b>	
	normal use	<b>0,00%</b>	(max Tv)	14,31%	<b>PASS</b> Traffic signal transmittance:
	high and prolonged exposure	<b>0,00%</b>	(max 0.5 TV)	7,15%	<b>PASS</b> Red signal <b>18,99%</b> (>= 8%) <b>PASS</b>
<b>TSIR</b>	(mean 780 ÷ 1400 nm)	<b>23,30%</b>	No requirement		Yellow signal <b>17,18%</b> (>= 6%) <b>PASS</b>
<b>TVIS</b>	(peak min 475 ÷ 650 nm)	<b>7,14%</b>	(min 0,2 TV)	2,85%	<b>PASS</b> Green signal <b>12,41%</b> (>= 6%) <b>PASS</b>

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

<b>TV</b>	(mean 380 ÷ 780 nm)	<b>14,25%</b>			Filter Category: <b>3</b>	
<b>TSB</b>	(mean 380 ÷ 500 nm)	<b>5,54%</b>			High sunglare reduction	
<b>TSIR</b>	(mean 780 ÷ 2000 nm)	<b>25,16%</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>0,00%</b>	(0,5 Tv)	7,12%	<b>PASS</b> <b>Qgreen</b>	<b>0,86</b> (min. = 0,60) <b>PASS</b>
<b>TSUVB</b>	(mean 280 ÷ 315 nm)	<b>0,00%</b>	(0,5 Tv)	0,71%	<b>PASS</b> <b>Qyellow</b>	<b>1,20</b> (min. = 0,80) <b>PASS</b>
<b>TSUVB1</b>	(peak max 315 ÷ 350 nm)	<b>0,00%</b>	(max 0,5 Tv)	7,12%	<b>PASS</b> <b>Qred</b>	<b>1,32</b> (min. = 0,80) <b>PASS</b>
<b>TVIS</b>	(peak min 450 ÷ 650 nm)	<b>5,50%</b>	(min 0,2 Tv)	2,85%	<b>PASS</b> <b>Qblue</b>	<b>0,79</b> (min. = 0,70) <b>PASS</b>



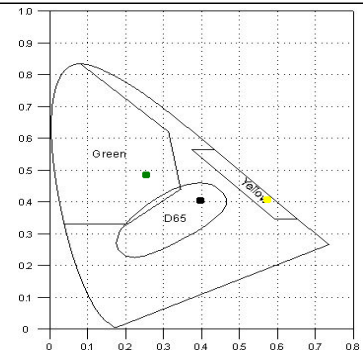
Spectral Data:

UV				VIS				IR					
nm	%	nm	%	nm	%	nm	%	nm	%	nm	%	nm	%
200	0,00	300	0,00	390	0,00	490	8,19	590	18,43	690	20,16	800	20,31
210	0,00	310	0,00	400	0,14	500	8,91	600	18,85	700	20,47	850	23,86
220	0,00	320	0,00	410	2,00	510	9,69	610	19,00	710	20,77	900	26,38
230	0,00	330	0,00	420	3,91	520	10,63	620	18,95	720	21,03	950	25,83
240	0,00	340	0,00	430	4,73	530	11,65	630	18,83	730	21,17	1000	24,43
250	0,00	350	0,00	440	4,95	540	12,52	640	18,79	740	21,11	1050	23,34
260	0,00	360	0,00	450	5,50	550	13,34	650	18,98	750	20,96	1100	22,67
270	0,00	370	0,00	460	6,19	560	14,61	660	19,20	760	20,72	1150	22,22
280	0,00	380	0,00	470	6,81	570	16,29	670	19,54	770	20,47	1200	22,14
290	0,00			480	7,49	580	17,74	680	19,91	780	20,28		

Data subject to change without notice

D65 : **x=0,4096**  
**y=0,4057**

C : **x=0,4088**  
**y=0,3972**



*De Luca Alfonso*  
Responsible Alfonso De Luca