


<b>OPTICAL GLASS LENS</b>		<b>Polarized glass lenses</b>		<b>CUSTOMER</b>		<b>BARBERINI SPA</b>	
<b>PolaACE IR/Br.33% - SAR cc</b>				<b>TECHNICAL DATA SHEET N.</b>		<b>NO2973</b>	
				<b>GLASS CODE:</b>		<b>AH1A15R0</b>	
Base: <b>6</b>		Coating: <b>SAR cc</b>		DATE:		<b>14/11/2016</b>	
Thickness: <b>1.8 mm</b>		Polarization Ratio: <b>&gt; 25</b>		(min 8:1)		Photochromic Ratio: <b>0,00%</b>	
Hardening: <b>Chemically</b>		Degree of Polarization: <b>0,99</b>				Photochromic Interval: <b>0,00</b>	
Optical Centre: <b>Centre</b>		Reflection factor: <b>PASS 1,47%</b>		(max 2.5%)			

**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>18,66%</b>		<b>IR PROTECTION</b>			
<b>TSB</b>	(mean 380 ÷ 500 nm)	<b>11,98%</b>					
<b>TSIR</b>	(mean 780 ÷ 2000 nm)	<b>12,01%</b>	(max TV)				
<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)	9,33%	<b>PASS</b>		
<b>TSUVB</b>	(mean 280 ÷ 315 nm)	<b>0,00%</b>	(max 0,05 TV)	0,93%	<b>PASS</b>		
<b>TVIS</b>	(peak min 475 ÷ 650 nm)	<b>9,96%</b>	(min 0,2 Tv)	3,73%	<b>PASS</b>		
	<b>Qgreen</b>	<b>1,01</b>	(min. = 0,60)		<b>PASS</b>		
	<b>Qyellow</b>	<b>1,01</b>	(min. = 0,60)		<b>PASS</b>		
	<b>Qred</b>	<b>1,08</b>	(min. = 0,80)		<b>PASS</b>		
	<b>Qblue</b>	<b>0,91</b>	(min. = 0,60)		<b>PASS</b>		

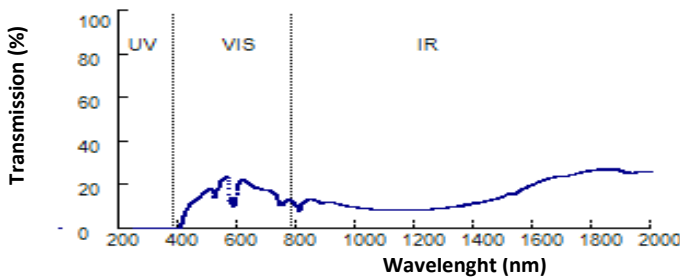
Suitable for driving and road use - Not suitable for driving at night or under condition of dull light

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

				Primary function and shade general purpose			
				Medium to dark			
<b>TV</b>	(mean 380 ÷ 780 nm)	<b>18,65%</b>	(8<=Tv<40)	<b>PASS</b>			
<b>TSB</b>	(mean 380 ÷ 500 nm)	<b>11,98%</b>					
<b>TSUVB</b>	(mean 280 ÷ 315 nm)			<i>Color limits:</i>			
	normal use	<b>0,00%</b>	(<=1/8Tv)	2,33%	<b>PASS</b>	Chromaticity (D65)	<b>PASS</b>
	high and prolonged exposure	<b>0,00%</b>	(max 1%)	0,18%	<b>PASS</b>	Yellow traffic signals	<b>x=0,5777 y=0,4208</b> <b>PASS</b>
<b>TSUVA</b>	(mean 315 ÷ 380 nm)			Green traffic signals			
	normal use	<b>0,00%</b>	(max Tv)	18,65%	<b>PASS</b>	Traffic signal transmittance:	
	high and prolonged exposure	<b>0,00%</b>	(max 0.5 TV)	9,32%	<b>PASS</b>	Red signal	<b>20,68%</b> (>= 8%) <b>PASS</b>
<b>TSIR</b>	(mean 780 ÷ 1400 nm)	<b>10,45%</b>	Not Calculated	Yellow signal			
<b>TVIS</b>	(peak min 475 ÷ 650 nm)	<b>9,96%</b>	(min 0,2 TV)	3,73%	<b>PASS</b>	Green signal	<b>18,60%</b> (>= 6%) <b>PASS</b>

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

				Filter Category: <b>2</b>			
				Medium sunglare reduction			
				Not Suitable for driving at night			
<b>TV</b>	(mean 380 ÷ 780 nm)	<b>18,66%</b>					
<b>TSB</b>	(mean 380 ÷ 500 nm)	<b>11,98%</b>					
<b>TSIR</b>	(mean 780 ÷ 2000 nm)	<b>12,01%</b>					
<b>TSUV</b>	(mean 280 ÷ 400 nm)	<b>0,00%</b>					
<b>TSUVA</b>	(mean 315 ÷ 400 nm)	<b>0,00%</b>	(max Tv)	18,66%	<b>PASS</b>	<b>Qgreen</b>	<b>1,00</b> (min. = 0,60) <b>PASS</b>
<b>TSUVB</b>	(mean 280 ÷ 315 nm)	<b>0,00%</b>	(max Tv)	0,93%	<b>PASS</b>	<b>Qyellow</b>	<b>1,01</b> (min. = 0,80) <b>PASS</b>
<b>TSUVB1</b>	(peak max 315 ÷ 350 nm)	<b>0,00%</b>	(max 0,5 Tv)	9,33%	<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>12,78%</b>	(min 0,2 Tv)	3,73%	<b>PASS</b>	<b>Qblue</b>	<b>0,94</b> (min. = 0,70) <b>PASS</b>



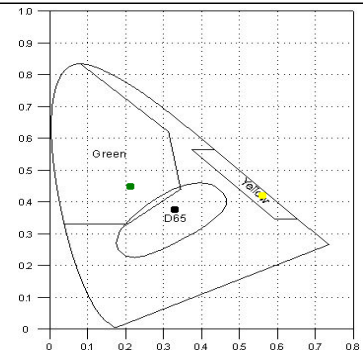
**Spectral Data:**

UV				VIS				IR					
nm	%	nm	%	nm	%	nm	%	nm	%	nm	%	nm	%
200	0,00	300	0,00	390	0,00	490	17,12	590	13,11	690	17,96	800	9,82
210	0,00	310	0,00	400	0,13	500	18,13	600	19,91	700	17,85	850	13,61
220	0,00	320	0,00	410	2,94	510	18,05	610	21,93	710	17,30	900	12,37
230	0,00	330	0,00	420	7,29	520	14,23	620	22,52	720	16,54	950	11,07
240	0,00	340	0,00	430	9,65	530	17,72	630	21,46	730	15,21	1000	9,79
250	0,00	350	0,00	440	11,54	540	21,70	640	20,53	740	10,86	1050	9,04
260	0,00	360	0,00	450	12,79	550	22,97	650	19,24	750	10,95	1100	8,64
270	0,00	370	0,00	460	13,77	560	23,83	660	18,80	760	12,75	1150	8,49
280	0,00	380	0,00	470	14,75	570	15,49	670	18,60	770	13,26	1200	8,44
290	0,00			480	15,98	580	14,27	680	18,21	780	12,89		

Data subject to change without notice

**D65 :** x=0,3395  
y=0,3771

**C :** x=0,3376  
y=0,3657



*De Luca Alfonso*

Responsible Alfonso De Luca