


OPTICAL GLASS LENS		Polarized glass lenses		109	CUSTOMER	BARBERIN SPA	
PolaNeophan/W25% - AR 99 cc					TECHNICAL DATA SHEET N.	NO2473	
Base:	6	Coating:	AR 99 cc	GLASS CODE:	NG01W5C0	DATE:	22/04/2015
Thickness:	1.8 mm	Polarization Ratio:	> 25	(min 8:1)			
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>	Dark tint	
			
<b>TV</b> (mean 380 ÷ 780 nm)	<b>16,56%</b>		
<b>TSB</b> (mean 380 ÷ 500 nm)	<b>11,42%</b>		
<b>TSIR</b> (mean 780 ÷ 2000 nm)	<b>76,83%</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)	8,28%	<b>PASS</b>
<b>TSUVB</b> (mean 280 ÷ 315 nm)	<b>0,00%</b> (max 1%)	0,16%	<b>PASS</b>
<b>TVIS</b> (peak min 475 ÷ 650 nm)	<b>11,57%</b> (min 0,2 Tv)	3,31%	<b>PASS</b>
<b>Qgreen</b>	<b>0,84</b> (min. = 0,60)		<b>PASS</b>
<b>Qyellow</b>	<b>1,20</b> (min. = 0,60)		<b>PASS</b>
<b>Qred</b>	<b>1,68</b> (min. = 0,80)		<b>PASS</b>
<b>Qblue</b>	<b>0,85</b> (min. = 0,60)		<b>PASS</b>

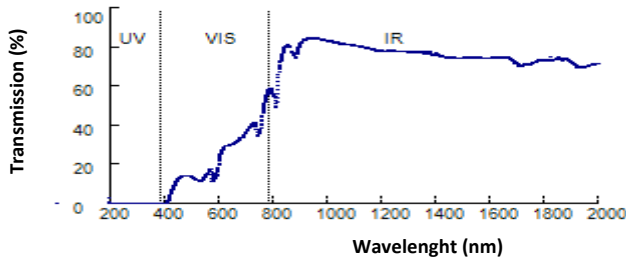
Suitable for driving and road use - Not suitable for driving at night or under condition of dull light

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

			Primary function and shade general purpose
<b>TV</b> (mean 380 ÷ 780 nm)	<b>16,64%</b> (<=Tv<40)	<b>PASS</b>	Medium to dark
<b>TSB</b> (mean 380 ÷ 500 nm)	<b>11,42%</b>		
<b>TSUVB</b> (mean 280 ÷ 315 nm)			Color limits:
normal use	<b>0,00%</b> (<=1/8Tv)	2,08%	<b>PASS</b> Chromaticity (D65)
high and prolonged exposure	<b>0,00%</b> (max 1%)	0,16%	<b>PASS</b> Yellow traffic signals <b>x=0,6128 y=0,3863</b> <b>PASS</b>
<b>TSUVA</b> (mean 315 ÷ 380 nm)			Green traffic signals <b>x=0,2301 y=0,4034</b> <b>PASS</b>
normal use	<b>0,00%</b> (max Tv)	16,64%	<b>PASS</b> Traffic signal transmittance:
high and prolonged exposure	<b>0,00%</b> (max 0.5 TV)	8,32%	<b>PASS</b> Red signal <b>30,49%</b> (>= 8%) <b>PASS</b>
<b>TSIR</b> (mean 780 ÷ 1400 nm)	<b>77,35%</b> No requirement		Yellow signal <b>20,53%</b> (>= 6%) <b>PASS</b>
<b>TVIS</b> (peak min 475 ÷ 650 nm)	<b>11,58%</b> (min 0,2 TV)	3,31%	<b>PASS</b> Green signal <b>13,96%</b> (>= 6%) <b>PASS</b>

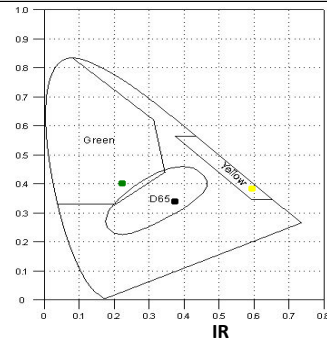
**Australian Norm: AS/NZS 1067:2009**

<b>TV</b> (mean 380 ÷ 780 nm)	<b>16,56%</b>			
<b>TSB</b> (mean 380 ÷ 500 nm)	<b>11,42%</b>			
<b>TSIR</b> (mean 780 ÷ 2000 nm)	<b>76,83%</b>			Filter Category: <b>3</b>
<b>TSUV</b> (mean 280 ÷ 400 nm)	<b>0,00%</b>			High sunglare reduction
<b>TSUVA</b> (mean 315 ÷ 400 nm)	<b>0,00%</b> (0,5 Tv)	8,28%	<b>PASS</b>	Not Suitable for driving at night
<b>TSUVB</b> (mean 280 ÷ 315 nm)	<b>0,00%</b> (0,5 Tv)	0,82%	<b>PASS</b>	<b>Qgreen</b> <b>0,83</b> (min. = 0,60) <b>PASS</b>
<b>TSUVB1</b> (peak max 315 ÷ 350 nm)	<b>0,01%</b> (max 0,5 Tv)	8,28%	<b>PASS</b>	<b>Qyellow</b> <b>1,25</b> (min. = 0,80) <b>PASS</b>
<b>TVIS</b> (peak min 450 ÷ 650 nm)	<b>11,57%</b> (min 0,2 TV)	3,31%	<b>PASS</b>	<b>Qred</b> <b>1,67</b> (min. = 0,80) <b>PASS</b>
				<b>Qblue</b> <b>0,93</b> (min. = 0,70) <b>PASS</b>



D65 : **x=0,3856**  
**y=0,3403**

C : **x=0,3827**  
**y=0,3308**



**Spectral Data:**

UV				VIS				IR					
nm	%	nm	%	nm	%	nm	%	nm	%	nm	%	nm	%
200	0,00	300	0,00	390	0,00	490	14,04	590	16,89	690	35,48	800	55,09
210	0,00	310	0,00	400	0,09	500	13,43	600	24,64	700	37,64	850	81,45
220	0,00	320	0,00	410	2,23	510	12,29	610	27,62	710	39,31	900	82,89
230	0,01	330	0,00	420	6,04	520	12,18	620	29,58	720	41,08	950	84,75
240	0,01	340	0,01	430	9,06	530	11,58	630	29,74	730	41,37	1000	83,29
250	0,00	350	0,01	440	11,64	540	13,55	640	30,23	740	34,69	1050	81,99
260	0,01	360	0,00	450	13,22	550	14,76	650	30,85	750	39,01	1100	81,05
270	0,01	370	0,02	460	14,10	560	16,75	660	31,67	760	48,49	1150	79,71
280	0,00	380	0,00	470	14,26	570	13,16	670	32,89	770	54,93	1200	78,32
290	0,00			480	14,08	580	15,92	680	34,04	780	58,79		

Data subject to change without notice

*De Luca Alfonso*

Responsible Alfonso De Luca