

OPTICAL GLASS LENS	●	Photochromic glass lenses	145	CUSTOMER	BARBERINI SPA
		PhotoGrey Extra - AR 99 cc		TECHNICAL DATA SHEET N.	FN942
Base:	6	Coating: AR 99 cc	---	GLASS CODE:	75000600
Thickness:	1.9 mm	Polarization Ratio:	0,00%	DATE:	21/04/2015
Hardening:	Chemically	Degree of Polarization:	0,00	Photochromic Ratio:	PASS 3,63% (min 1.25)
Optical Centre:	Centre	Reflection factor:		Photochromic Interval:	0,72

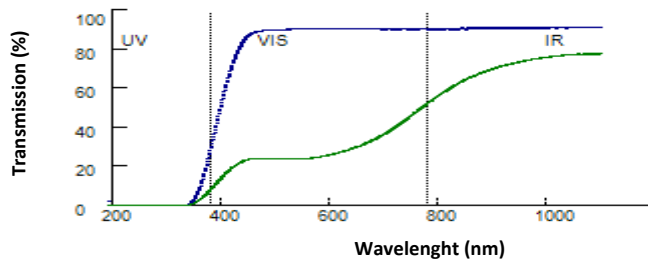
This sunglare filter is conform to the following International Norm:

European Norm: ISO 12312-1 2013		Light				Dark			
		Filter Category:	0	Very light tint	Filter Category:	2	Medium tint		
TV	(mean 380 ÷ 780 nm)	90,41%				24,87%			
TSB	(mean 380 ÷ 500 nm)	83,87%				22,69%			
TSIR	(mean 780 ÷ 2000 nm)	91,13%	(max TV)	NO IR PROTECTION			(max TV)		
TSUV	(mean 280 ÷ 380 nm)	3,54%				1,10%			
TSUVA	(mean 315 ÷ 380 nm)	5,48%	(max Tv)	90,41%	PASS	1,70%	(max Tv)	24,87%	PASS
TSUVB	(mean 280 ÷ 315 nm)	0,01%	(max 0,05 TV)	4,52%	PASS	0,00%	(max 0,05 TV)	1,24%	PASS
TVIS	(peak min 475 ÷ 650 nm)	89,66%	(min 0,2 Tv)	18,08%	PASS	23,87%	(min 0,2 Tv)	4,97%	PASS
	Qgreen	1,00	(min. = 0,60)		PASS	0,97	(min. = 0,60)		PASS
	Qyellow	1,00	(min. = 0,60)		PASS	1,03	(min. = 0,60)		PASS
	Qred	1,00	(min. = 0,80)		PASS	1,12	(min. = 0,80)		PASS
	Qblue	0,99	(min. = 0,60)		PASS	0,98	(min. = 0,60)		PASS

Suitable for driving and road use - Suitable for driving at night or under condition of dull light

American Norm: ANSI Z80.3-2010		Primary function and shade cosmetic			
TV	(mean 380 ÷ 780 nm)	90,41%	(40<=Tv<100)	PASS	Light
TSB	(mean 380 ÷ 500 nm)	83,87%			
TSUVB	(mean 280 ÷ 315 nm)				<i>Color limits:</i>
	normal use	0,00%	(<=1/8Tv)	11,30%	PASS Chromaticity (D65)
	high and prolonged exposure	0,00%	(max 1%)	0,90%	PASS Yellow traffic signals x=0,5761 y=0,4225
TSUVA	(mean 315 ÷ 380 nm)				PASS Green traffic signals x=0,2086 y=0,4064
	normal use	7,83%	(max Tv)	90,41%	PASS <i>Traffic signal transmittance:</i>
	high and prolonged exposure	7,83%	(max 0.5 TV)	45,20%	PASS Red signal 90,57% (>= 8%)
TSIR	(mean 780 ÷ 1400 nm)	91,07%	No requirement		PASS Yellow signal 90,57% (>= 6%)
TVIS	(peak min 475 ÷ 650 nm)	89,67%	(min 0,2 TV)	18,08%	PASS Green signal 90,39% (>= 6%)

Australian Norm: AS/NZS 1067:2009		Filter Category: 0			
					Very Low sunglare reduction
TV	(mean 380 ÷ 780 nm)	90,41%			
TSB	(mean 380 ÷ 500 nm)	83,87%			
TSIR	(mean 780 ÷ 2000 nm)	91,13%			
TSUV	(mean 280 ÷ 400 nm)	6,47%			
TSUVA	(mean 315 ÷ 400 nm)	9,65%	(max Tv)	90,41%	PASS Qgreen 0,99 (min. = 0,60) PASS
TSUVB	(mean 280 ÷ 315 nm)	0,01%	(max Tv)	4,52%	PASS Qyellow 1,00 (min. = 0,80) PASS
TSUVB1	(peak max 315 ÷ 350 nm)	4,14%	(max Tv)	90,41%	PASS Qred 1,00 (min. = 0,80) PASS
TVIS	(peak min 450 ÷ 650 nm)	87,51%	(min 0,2 Tv)	18,08%	PASS Qblue 0,99 (min. = 0,70) PASS

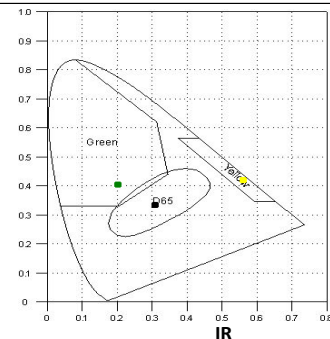


D65 : **x=0,3164**

y=0,3365

C : **x=0,3140**

y=0,3241



Spectral Data:

UV				VIS				IR					
nm	%	nm	%	nm	%	nm	%	nm	%	nm	%	nm	%
200	0,00	300	0,00	390	42,41	490	90,01	590	90,52	690	90,45	800	90,65
210	0,01	310	0,01	400	53,89	500	90,09	600	90,54	700	90,48	850	90,46
220	0,02	320	0,01	410	64,23	510	90,28	610	90,57	710	90,60	900	90,80
230	0,00	330	0,11	420	72,86	520	90,38	620	90,64	720	90,48	950	91,20
240	0,00	340	1,02	430	79,69	530	90,49	630	90,54	730	90,47	1000	91,15
250	0,01	350	4,14	440	84,61	540	90,50	640	90,64	740	90,51	1050	91,20
260	0,00	360	10,34	450	87,52	550	90,53	650	90,56	750	90,32	1100	91,25
270	0,00	370	19,45	460	88,90	560	90,57	660	90,47	760	90,32	1150	91,55
280	0,01	380	30,48	470	89,47	570	90,66	670	90,44	770	90,63	1200	91,38
290	0,01			480	89,87	580	90,60	680	90,64	780	90,60		

Data subject to change without notice

De Luca Alfonso

Responsible Alfonso De Luca