Barberini
High Performance Glass Sunlenses

OPTICAL GLASS LENS	Standard glass lenses	174	CUSTOMER	BARBERINI SPA
Sonbraun B/UV - AR 99 cc			TECHNICAL DATA SHEET N.	NO3042
			GLASS CODE:	42010600
			DATE:	30/09/2015

Base:	6	Coating:	AR 99 cc				
Thickness:	1.9 mm	Polarization Ratio:	0,00%	(min 8:1)			
Hardening:	Chemically	Degree of Polarization:	0,00		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: **2** **Medium tint**

TV	(mean 380 ÷ 780 nm)	**34,46%**			
TSB	(mean 380 ÷ 500 nm)	**17,50%**			
TSIR	(mean 780 ÷ 2000 nm)	**25,32%**	(max TV)		**IR PROTECTION**
TSUV	(mean 280 ÷ 380 nm)	**0,35%**			
TSUVA	(mean 315 ÷ 380 nm)	**0,55%**	(max 0,5 TV)	17,23%	**PASS**
TSUVB	(mean 280 ÷ 315 nm)	**0,01%**	(max 0,05 TV)	1,72%	**PASS**
TVIS	(peak min 475 ÷ 650 nm)	**21,55%**	(min 0,2 Tv)	6,89%	**PASS**
	Qgreen	**0,95**	(min. = 0,60)		**PASS**
	Qyellow	**1,10**	(min. = 0,60)		**PASS**
	Qred	**1,18**	(min. = 0,80)		**PASS**
	Qblue	**0,77**	(min. = 0,60)		**PASS**

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

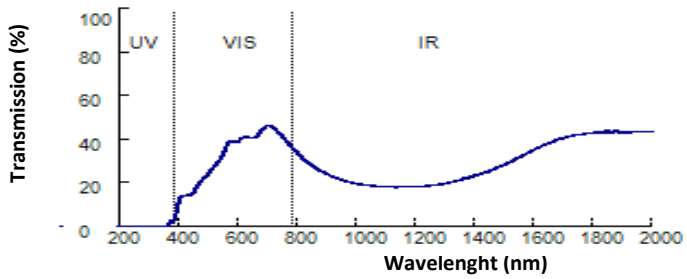
American Norm: ANSI Z80.3-2010

Primary function and shade general purpose

TV	(mean 380 ÷ 780 nm)	**34,56%**	(8<=Tv<40)		**PASS**	Medium to dark			
TSB	(mean 380 ÷ 500 nm)	**17,50%**							
TSUVB	(mean 280 ÷ 315 nm)					*Color limits:*			
	normal use	**0,00%**	(<=1/8Tv)	4,32%	**PASS**	Chromaticity (D65)			**PASS**
	high and prolonged exposure	**0,00%**	(max 1%)	0,34%	**PASS**	Yellow traffic signals	**x=0,5821**	**y=0,4166**	**PASS**
TSUVA	(mean 315 ÷ 380 nm)					Green traffic signals	**x=0,2432**	**y=0,4718**	**PASS**
	normal use	**0,82%**	(max Tv)	34,56%	**PASS**	*Traffic signal trasmittance:*			
	high and prolonged exposure	**0,82%**	(max 0.5 TV)	17,28%	**PASS**	Red signal	**41,33%**	(>= 8%)	**PASS**
TSIR	(mean 780 ÷ 1400 nm)	**23,39%**	No requirement			Yellow signal	**39,01%**	(>= 6%)	**PASS**
TVIS	(peak min 475 ÷ 650 nm)	**21,56%**	(min 0,2 TV)	6,89%	**PASS**	Green signal	**31,76%**	(>= 6%)	**PASS**

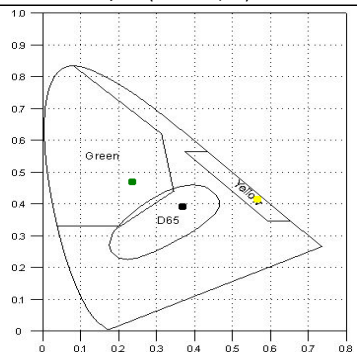
Australian Norm: AS/NZS 1067:2009

TV	(mean 380 ÷ 780 nm)	**34,46%**							
TSB	(mean 380 ÷ 500 nm)	**17,50%**				Filter Category:	**2**		
TSIR	(mean 780 ÷ 2000 nm)	**25,32%**					Medium sunglare reduction		
TSUV	(mean 280 ÷ 400 nm)	**1,00%**					Not Suitable for driving at night		
TSUVA	(mean 315 ÷ 400 nm)	**1,48%**	(max Tv)	34,46%	**PASS**	**Qgreen**	**0,92**	(min. = 0,60)	**PASS**
TSUVB	(mean 280 ÷ 315 nm)	**0,01%**	(max Tv)	1,72%	**PASS**	**Qyellow**	**1,13**	(min. = 0,80)	**PASS**
TSUVB1	(peak max 315 ÷ 350 nm)	**0,07%**	(max 0,5 Tv)	17,23%	**PASS**	**Qred**	**1,18**	(min. = 0,80)	**PASS**
TVIS	(peak min 450 ÷ 650 nm)	**16,77%**	(min 0,2 Tv)	6,89%	**PASS**	**Qblue**	**0,84**	(min. = 0,70)	**PASS**



D65 : **x=0,3789** **y=0,3938**

C : **x=0,3778** **y=0,3843**



Spectral Data:

UV				VIS								IR			
nm	**%**	**nm**	**%**	**nm**	**%**	**nm**	**%**	**nm**	**%**	**nm**	**%**	**nm**	**%**	**nm**	**%**
200	0,01	300	0,01	390	8,61	490	23,47	590	38,60	690	46,16	800	33,62	1300	19,99
210	0,00	310	0,01	400	13,40	500	25,18	600	39,60	700	46,44	850	27,69	1400	23,88
220	0,00	320	0,00	410	14,04	510	26,90	610	40,70	710	46,04	900	23,91	1500	28,85
230	0,01	330	0,00	420	14,13	520	28,55	620	41,19	720	45,06	950	21,39	1600	35,60
240	0,01	340	0,00	430	14,62	530	29,96	630	41,08	730	43,83	1000	19,74	1700	40,96
250	0,00	350	0,07	440	14,72	540	31,92	640	40,76	740	42,46	1050	18,84	1800	43,35
260	0,01	360	0,93	450	16,77	550	34,83	650	40,75	750	40,89	1100	18,44	1900	43,67
270	0,01	370	2,95	460	19,27	560	37,85	660	41,56	760	39,26	1150	18,34	2000	43,75
280	0,00	380	2,83	470	20,92	570	39,60	670	43,22	770	37,72	1200	18,57		
290	0,00			480	22,14	580	39,42	680	45,08	780	36,35				

Data subject to change without notice

De Luca Alfonso

Responsible Alfonso De Luca

Barberini S.p.A. Via Statale Sud, 92 64028 Silvi (TE) t: +39 085 936731 f: +39 085 9350696 barberini@barberini.eu www.barberini.eu