Barberini
High Performance Glass Sunlenses

OPTICAL GLASS LENS — **Polarized glass lenses**

PolaACE /Br.33% - Dg.Mr.Gold Gr./Dg.Gr. Nero/AR 99(centre)

CUSTOMER **BARBERINI SPA**
TECHNICAL DATA SHEET N. **NO2774**
GLASS CODE: **160801DRE3**
DATE: **30/03/2016**

Base:	**4,25**	Coating:	**Dg.Mr.Gold Gr./Dg.Gr. Nero/AR**		
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: **3** **Dark tint**

TV	(mean 380 ÷ 780 nm)	**12,01%**			
TSB	(mean 380 ÷ 500 nm)	**7,06%**			
TSIR	(mean 780 ÷ 2000 nm)	**41,61%**	(max TV)		**NO IR PROTECTION**
TSUV	(mean 280 ÷ 380 nm)	**0,00%**			
TSUVA	(mean 315 ÷ 380 nm)	**0,00%**	(max 0,5 TV)	0,06	**PASS**
TSUVB	(mean 280 ÷ 315 nm)	**0,00%**	(max 1%)	0,12%	**PASS**
TVIS	(peak min 475 ÷ 650 nm)	**7,71%**	(min 0,2 Tv)	2,40%	**PASS**
	Qgreen	**0,96**	(min. = 0,60)		**PASS**
	Qyellow	**1,08**	(min. = 0,60)		**PASS**
	Qred	**1,29**	(min. = 0,80)		**PASS**
	Qblue	**0,87**	(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)	**12,03%**	(8<=Tv<40)		**PASS**
TSB	(mean 380 ÷ 500 nm)	**7,06%**			
TSUVB	(mean 280 ÷ 315 nm)				
	normal use	**0,00%**	(<=1/8Tv)	1,50%	**PASS**
	high and prolonged exposure	**0,00%**	(max 1%)	0,12%	**PASS**
TSUVA	(mean 315 ÷ 380 nm)				
	normal use	**0,00%**	(max Tv)	12,03%	**PASS**
	high and prolonged exposure	**0,00%**	(max 0.5 TV)	6,01%	**PASS**
TSIR	(mean 780 ÷ 1400 nm)	**41,27%**	No requirement		
TVIS	(peak min 475 ÷ 650 nm)	**7,72%**	(min 0,2 TV)	2,40%	**PASS**

Medium to dark

Color limits:

Chromaticity (D65)		**PASS**
Yellow traffic signals	**x=0,5913 y=0,4074**	**PASS**
Green traffic signals	**x=0,2273 y=0,4528**	**PASS**

Traffic signal trasmittance:

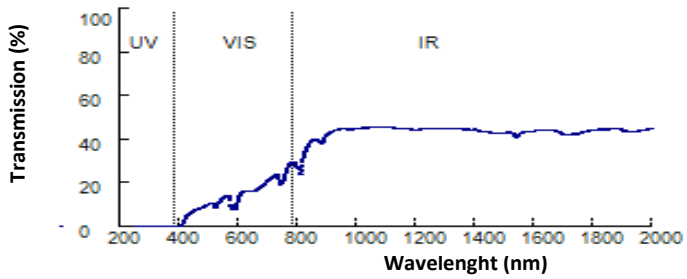
Red signal	**16,74%** (>= 8%)	**PASS**
Yellow signal	**13,25%** (>= 6%)	**PASS**
Green signal	**11,33%** (>= 6%)	**PASS**

Australian Norm: AS/NZS 1067:2009

TV	(mean 380 ÷ 780 nm)	**12,01%**			
TSB	(mean 380 ÷ 500 nm)	**7,06%**			
TSIR	(mean 780 ÷ 2000 nm)	**41,61%**			
TSUV	(mean 280 ÷ 400 nm)	**0,00%**			
TSUVA	(mean 315 ÷ 400 nm)	**0,00%**	(0,5 Tv)	0,06	**PASS**
TSUVB	(mean 280 ÷ 315 nm)	**0,00%**	(0,5 Tv)	0,6%	**PASS**
TSUVB1	(peak max 315 ÷ 350 nm)	**0,00%**	(max 0,5 Tv)	0,06	**PASS**
TVIS	(peak min 450 ÷ 650 nm)	**7,51%**	(min 0,2 Tv)	2,40%	**PASS**

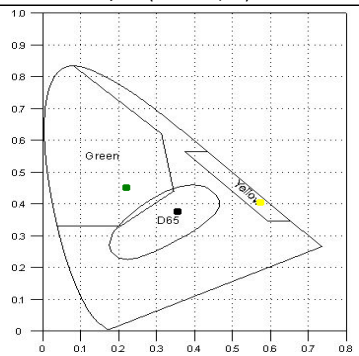
Filter Category: **3**
High sunglare reduction
Not Suitable for driving at night

Qgreen	**0,94**	(min. = 0,60)	**PASS**
Qyellow	**1,10**	(min. = 0,80)	**PASS**
Qred	**1,28**	(min. = 0,80)	**PASS**
Qblue	**0,93**	(min. = 0,70)	**PASS**



D65 : **x=0,3645** **y=0,3766**

C : **x=0,3627** **y=0,3660**



Spectral Data:

UV				VIS								IR			
nm	**%**	**nm**	**%**	**nm**	**%**	**nm**	**%**	**nm**	**%**	**nm**	**%**	**nm**	**%**	**nm**	**%**
200	0,00	300	0,00	390	0,00	490	9,93	590	9,79	690	20,17	800	26,58	1300	45,00
210	0,00	310	0,00	400	0,04	500	10,51	600	13,94	700	21,55	850	39,77	1400	44,71
220	0,00	320	0,00	410	1,61	510	10,59	610	15,50	710	22,59	900	42,68	1500	43,11
230	0,00	330	0,00	420	4,37	520	8,61	620	16,51	720	23,46	950	44,92	1600	44,03
240	0,00	340	0,00	430	5,86	530	10,74	630	16,51	730	23,59	1000	45,33	1700	42,46
250	0,00	350	0,00	440	6,91	540	12,80	640	16,54	740	19,44	1050	45,53	1800	44,34
260	0,00	360	0,00	450	7,52	550	13,61	650	16,34	750	21,18	1100	45,59	1900	44,57
270	0,00	370	0,00	460	8,04	560	14,34	660	16,96	760	25,81	1150	45,26	2000	44,84
280	0,00	380	0,00	470	8,62	570	10,39	670	17,92	770	28,58	1200	44,66		
290	0,00			480	9,31	580	10,25	680	18,91	780	29,86				

Data subject to change without notice

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