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|---------------------------|------------|-------------------------|------------|------------|-------------------------|---------------|
| OPTICAL GLASS LENS | | Polarized glass lenses | | 5 | CUSTOMER | BARBERINI SPA |
| PolaBlu/BL 25% - AR 99 cc | | | | | TECHNICAL DATA SHEET N. | NO2791 |
| Base: | 6 | Coating: | AR 99 cc | | GLASS CODE: | PL01F5C0 |
| Thickness: | 1.9 mm | Polarization Ratio: | > 25 | (min 8:1) | DATE: | 05/04/2016 |
| 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: | 2 | Medium tint | |
| |  | | | |
| TV | (mean 380 ÷ 780 nm) | 28,98% | | |
| TSB | (mean 380 ÷ 500 nm) | 28,99% | | |
| TSIR | (mean 780 ÷ 2000 nm) | 80,61% | (max TV) | NO IR PROTECTION |
| TSUV | (mean 280 ÷ 380 nm) | 0,00% | | |
| TSUVA | (mean 315 ÷ 380 nm) | 0,00% | (max 0,5 TV) | 14,49% PASS |
| TSUVB | (mean 280 ÷ 315 nm) | 0,00% | (max 0,05 TV) | 1,44% PASS |
| TVIS | (peak min 475 ÷ 650 nm) | 23,17% | (min 0,2 Tv) | 5,79% PASS |
| | Qgreen | 1,05 | (min. = 0,60) | PASS |
| | Qyellow | 0,91 | (min. = 0,60) | PASS |
| | Qred | 0,83 | (min. = 0,80) | PASS |
| | Qblue | 1,12 | (min. = 0,60) | PASS |

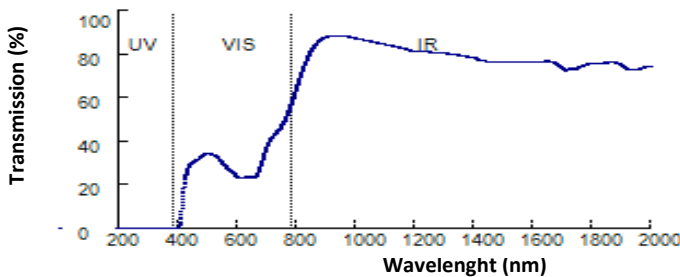
Suitable for driving and road use - Not suitable for driving at night or under condition of dull light

American Norm: ANSI Z80.3-2010

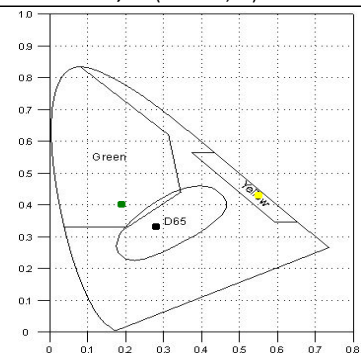
| | | | | |
|-------|-----------------------------|--------|---------------------|---|
| | | | | Primary function and shade general purpose |
| TV | (mean 380 ÷ 780 nm) | 28,89% | (8<=Tv<40) | PASS Medium to dark |
| TSB | (mean 380 ÷ 500 nm) | 28,99% | | |
| TSUVB | (mean 280 ÷ 315 nm) | | | Color limits: |
| | normal use | 0,00% | (<=1/8Tv) 3,61% | PASS Chromaticity (D65) |
| | high and prolonged exposure | 0,00% | (max 1%) 0,28% | PASS Yellow traffic signals x=0,5662 y=0,4323 |
| TSUVA | (mean 315 ÷ 380 nm) | | | PASS Green traffic signals x=0,1939 y=0,4041 |
| | normal use | 0,00% | (max Tv) 28,89% | PASS Traffic signal transmittance: |
| | high and prolonged exposure | 0,00% | (max 0.5 TV) 14,44% | PASS Red signal 24,35% (>= 8%) |
| TSIR | (mean 780 ÷ 1400 nm) | 81,46% | No requirement | PASS Yellow signal 25,94% (>= 6%) |
| TVIS | (peak min 475 ÷ 650 nm) | 23,17% | (min 0,2 TV) 5,79% | PASS Green signal 31,07% (>= 6%) |

Australian Norm: AS/NZS 1067:2009

| | | | | | | |
|--------|-------------------------|--------|---------------------|------|------------------|-----------------------------------|
| TV | (mean 380 ÷ 780 nm) | 28,98% | | | Filter Category: | 2 |
| TSB | (mean 380 ÷ 500 nm) | 28,99% | | | | Medium sunglare reduction |
| TSIR | (mean 780 ÷ 2000 nm) | 80,61% | | | | Not Suitable for driving at night |
| TSUV | (mean 280 ÷ 400 nm) | 0,01% | | | | |
| TSUVA | (mean 315 ÷ 400 nm) | 0,01% | (max Tv) 28,98% | PASS | Qgreen | 1,07 (min. = 0,60) PASS |
| TSUVB | (mean 280 ÷ 315 nm) | 0,00% | (max Tv) 1,44% | PASS | Qyellow | 0,89 (min. = 0,80) PASS |
| TSUVB1 | (peak max 315 ÷ 350 nm) | 0,00% | (max 0,5 Tv) 14,49% | PASS | Qred | 0,82 (min. = 0,80) PASS |
| TVIS | (peak min 450 ÷ 650 nm) | 23,17% | (min 0,2 TV) 5,79% | PASS | Qblue | 1,10 (min. = 0,70) PASS |



D65 : x=0,2885
y=0,3328
C : x=0,2864
y=0,3189



Spectral Data:

| UV | | | | VIS | | | | IR | | | | | |
|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|-------|------|-------|
| nm | % | nm | % | nm | % | nm | % | nm | % | nm | % | nm | % |
| 200 | 0,00 | 300 | 0,00 | 390 | 0,00 | 490 | 34,54 | 590 | 24,78 | 690 | 34,85 | 800 | 65,61 |
| 210 | 0,00 | 310 | 0,00 | 400 | 0,69 | 500 | 34,66 | 600 | 23,58 | 700 | 38,55 | 850 | 82,41 |
| 220 | 0,00 | 320 | 0,00 | 410 | 10,63 | 510 | 34,34 | 610 | 23,17 | 710 | 40,98 | 900 | 88,31 |
| 230 | 0,00 | 330 | 0,00 | 420 | 22,34 | 520 | 33,72 | 620 | 23,50 | 720 | 42,67 | 950 | 88,79 |
| 240 | 0,00 | 340 | 0,00 | 430 | 27,84 | 530 | 32,74 | 630 | 23,86 | 730 | 44,21 | 1000 | 87,54 |
| 250 | 0,00 | 350 | 0,00 | 440 | 30,11 | 540 | 31,26 | 640 | 23,75 | 740 | 45,80 | 1050 | 86,08 |
| 260 | 0,00 | 360 | 0,00 | 450 | 30,95 | 550 | 29,60 | 650 | 23,52 | 750 | 47,87 | 1100 | 84,67 |
| 270 | 0,00 | 370 | 0,00 | 460 | 31,45 | 560 | 28,29 | 660 | 24,14 | 760 | 50,41 | 1150 | 83,16 |
| 280 | 0,00 | 380 | 0,00 | 470 | 32,51 | 570 | 27,31 | 670 | 26,50 | 770 | 53,66 | 1200 | 81,49 |
| 290 | 0,00 | | | 480 | 33,78 | 580 | 26,18 | 680 | 30,48 | 780 | 57,31 | | |

Data subject to change without notice

De Luca Alfonso
Responsible Alfonso De Luca