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|-----------------------------|------------|-------------------------|------------|------------|-------------------------|---------------|
| OPTICAL GLASS LENS | | Polarized glass lenses | | 29 | CUSTOMER | BARBERINI SPA |
| PolaACE / Gr.25% - AR 99 cc | | | | | TECHNICAL DATA SHEET N. | NO2641 |
| Base: | 6 | Coating: | AR 99 cc | | GLASS CODE: | AC01M5c0 |
| Thickness: | 1.8 mm | Polarization Ratio: | > 25 | (min 8:1) | DATE: | 02/12/2015 |
| 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) | 12,93% | | |
| TSB | (mean 380 ÷ 500 nm) | 9,79% | | |
| TSIR | (mean 780 ÷ 2000 nm) | 65,61% | (max TV) | NO IR PROTECTION |
| TSUV | (mean 280 ÷ 380 nm) | 0,00% | | |
| TSUVA | (mean 315 ÷ 380 nm) | 0,00% | (max 0,5 TV) | 6,46% PASS |
| TSUVB | (mean 280 ÷ 315 nm) | 0,00% | (max 1%) | 0,12% PASS |
| TVIS | (peak min 475 ÷ 650 nm) | 6,00% | (min 0,2 Tv) | 2,58% PASS |
| | Qgreen | 1,07 | (min. = 0,60) | PASS |
| | Qyellow | 0,94 | (min. = 0,60) | PASS |
| | Qred | 0,88 | (min. = 0,80) | PASS |
| | Qblue | 1,01 | (min. = 0,60) | PASS |

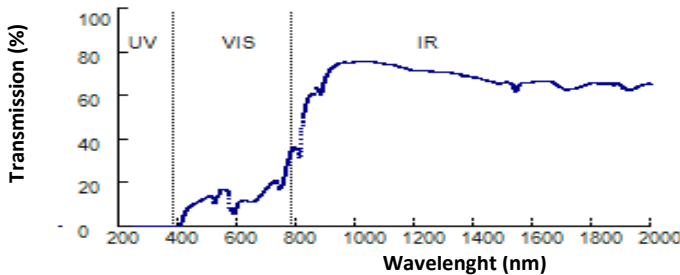
Suitable for driving and road use - Not suitable for driving at night or under condition of dull light

American Norm: ANSI Z80.3-2010

| | | | | |
|-------|-----------------------------|--------------------|----------------|---|
| | | | | Primary function and shade general purpose |
| TV | (mean 380 ÷ 780 nm) | 12,91% (8<=Tv<40) | | PASS Medium to dark |
| TSB | (mean 380 ÷ 500 nm) | 9,79% | | |
| TSUVB | (mean 280 ÷ 315 nm) | | | Color limits: |
| | normal use | 0,00% (<=1/8Tv) | 1,61% | PASS Chromaticity (D65) |
| | high and prolonged exposure | 0,00% (max 1%) | 0,12% | PASS Yellow traffic signals x=0,5626 y=0,4358 |
| TSUVA | (mean 315 ÷ 380 nm) | | | PASS Green traffic signals x=0,2063 y=0,4427 |
| | normal use | 0,00% (max Tv) | 12,91% | PASS Traffic signal transmittance: |
| | high and prolonged exposure | 0,00% (max 0.5 TV) | 6,45% | PASS Red signal 12,12% (>= 8%) |
| TSIR | (mean 780 ÷ 1400 nm) | 65,62% | No requirement | PASS Yellow signal 12,04% (>= 6%) |
| TVIS | (peak min 475 ÷ 650 nm) | 6,00% | (min 0,2 TV) | 2,58% PASS Green signal 13,77% (>= 6%) |

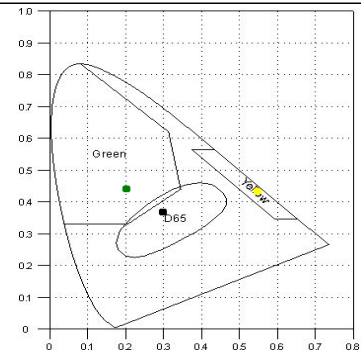
Australian Norm: AS/NZS 1067:2009

| | | | | | |
|--------|-------------------------|--------------------|-------|------|-----------------------------------|
| TV | (mean 380 ÷ 780 nm) | 12,93% | | | Filter Category: 3 |
| TSB | (mean 380 ÷ 500 nm) | 9,79% | | | High sunglare reduction |
| TSIR | (mean 780 ÷ 2000 nm) | 65,61% | | | Not Suitable for driving at night |
| TSUV | (mean 280 ÷ 400 nm) | 0,00% | | | |
| TSUVA | (mean 315 ÷ 400 nm) | 0,00% (0,5 Tv) | 6,46% | PASS | Qgreen 1,07 (min. = 0,60) PASS |
| TSUVB | (mean 280 ÷ 315 nm) | 0,00% (0,5 Tv) | 0,64% | PASS | Qyellow 0,92 (min. = 0,80) PASS |
| TSUVB1 | (peak max 315 ÷ 350 nm) | 0,00% (max 0,5 Tv) | 6,46% | PASS | Qred 0,88 (min. = 0,80) PASS |
| TVIS | (peak min 450 ÷ 650 nm) | 7,48% (min 0,2 TV) | 2,58% | PASS | Qblue 1,03 (min. = 0,70) PASS |



D65 : x=0,3074
y=0,3686

C : x=0,3056
y=0,3557



Spectral Data:

| UV | | | | VIS | | | | IR | | | | | |
|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|-------|------|-------|
| nm | % | nm | % | nm | % | nm | % | nm | % | nm | % | nm | % |
| 200 | 0,00 | 300 | 0,00 | 390 | 0,00 | 490 | 13,17 | 590 | 7,48 | 690 | 16,60 | 800 | 35,32 |
| 210 | 0,00 | 310 | 0,00 | 400 | 0,08 | 500 | 13,82 | 600 | 10,76 | 700 | 18,29 | 850 | 61,36 |
| 220 | 0,00 | 320 | 0,00 | 410 | 2,50 | 510 | 13,78 | 610 | 11,70 | 710 | 19,52 | 900 | 69,57 |
| 230 | 0,00 | 330 | 0,00 | 420 | 6,43 | 520 | 10,91 | 620 | 12,22 | 720 | 20,63 | 950 | 75,36 |
| 240 | 0,00 | 340 | 0,00 | 430 | 8,38 | 530 | 13,59 | 630 | 11,83 | 730 | 21,19 | 1000 | 76,13 |
| 250 | 0,00 | 350 | 0,00 | 440 | 9,74 | 540 | 16,56 | 640 | 11,57 | 740 | 17,01 | 1050 | 75,89 |
| 260 | 0,00 | 360 | 0,00 | 450 | 10,51 | 550 | 17,33 | 650 | 11,40 | 750 | 19,27 | 1100 | 74,79 |
| 270 | 0,00 | 370 | 0,00 | 460 | 11,07 | 560 | 17,20 | 660 | 12,14 | 760 | 25,46 | 1150 | 73,35 |
| 280 | 0,00 | 380 | 0,00 | 470 | 11,69 | 570 | 10,82 | 670 | 13,52 | 770 | 30,46 | 1200 | 71,84 |
| 290 | 0,00 | | | 480 | 12,46 | 580 | 8,87 | 680 | 15,00 | 780 | 34,71 | | |

Data subject to change without notice

De Luca Alfonso
Responsible Alfonso De Luca