

### American Standard (ANSI Z80.3:2008)

|  |                   |
|--|-------------------|
| <b>Filter Category</b>                           | <b>3</b>          |
| <b>Filter Type</b>                               | <b>Polarizing</b> |
| <b>Transmittance requirements</b>                |                   |
| Luminous Tran. (380-780nm)                       | 11.67%            |
| Mean Tran. UVB or Erythral Zone (290-315nm)      | 0.012% Pass       |
| Mean Tran. UVA or Near Zone (315-380nm)          | 0.019% Pass       |
| Near Infrared Tran. (780-1400nm)                 | n/a               |
| <b>Road use and driving requirements</b>         |                   |
| Spectral Transmittance                           |                   |
| Minimum Spectral Tran. (500-650nm)               | 9.43% Pass        |
| Color limits                                     |                   |
| Yellow Traffic Signal, X Chromaticity Coordinate | 0.5710            |
| Yellow Traffic Signal, Y Chromaticity Coordinate | 0.4277            |
| Green Traffic Signal, X Chromaticity Coordinate  | 0.1842            |
| Green Traffic Signal, Y Chromaticity Coordinate  | 0.3538            |
| Average Daylight, D65 X Chromaticity Coordinate  | 0.2683            |
| Average Daylight, D65 y Chromaticity Coordinate  | 0.2876            |
| <b>Traffic Signal Transmittance</b>              |                   |
| Red Traffic Signal Transmittance                 | 10.84% Pass       |
| Yellow Traffic Signal Transmittance              | 10.90% Pass       |
| Green Traffic Signal Transmittance               | 13.15% Pass       |

### European Standard (EN 1836:2005)

|  |                   |
|--|-------------------|
| <b>Filter Category</b>                   | <b>3</b>          |
| <b>Filter Type</b>                       | <b>Polarizing</b> |
| <b>Transmittance requirements</b>        |                   |
| Luminous Tran. (380-780nm)               | 12.30%            |
| Maximum Spectral Tran. (280-350nm)       | 0.0183% Pass      |
| Maximum Spectral Tran. (315-350nm)       | 0.0140% Pass      |
| Maximum Solar UVA Tran. (315-380nm)      | 0.0224% Pass      |
| 100% protection claim (optional)         |                   |
| Solar UVB Tran. (280-315nm)              | 0.02% Pass        |
| Solar UVA Tran. (315-380nm)              | 0.01% Pass        |
| Solar UV Tran. (280-380nm)               | 0.01% Pass        |
| Solar Blue Light Tran. (380-500nm)       | 17.28%            |
| Solar Infrared Tran. (780-2000nm)        | n/a               |
| <b>Road use and driving requirements</b> |                   |
| Minimum Spectral Tran. (500-650nm)       | 9.43% Pass        |
| • Red Q Quotient                         | 0.84% Pass        |
| • Yellow Q Quotient                      | 0.89% Pass        |
| • Green Q Quotient                       | 1.07% Pass        |
| • Blue Q Quotient                        | 1.07% Pass        |

### Polarized Efficiency

>99%

### Australian Standard (AS/NZS 1067:2003)

|  |                   |
|--|-------------------|
| <b>Filter Category</b>                   | <b>3</b>          |
| <b>Filter Type</b>                       | <b>Polarizing</b> |
| <b>Transmittance requirements</b>        |                   |
| Luminous Tran. (380-780nm)               | 12.30%            |
| Maximum Spectral Tran. (280-350nm)       | 0.0183% Pass      |
| Maximum Spectral Tran. (315-350nm)       | 0.0140% Pass      |
| Maximum Solar UVA Tran. (315-380nm)      | 0.0224% Pass      |
| Minimum Solar UVA Tran. (450-650nm)      | 9.43%             |
| 100% protection claim (optional)         |                   |
| Solar UVB Tran. (280-315nm)              | 0.02% Pass        |
| Solar UVA Tran. (315-400nm)              | 0.027% Pass       |
| Solar UV Tran. (280-400nm)               | 0.044% Pass       |
| Solar Blue Light Tran. (400-500nm)       | 17.32%            |
| Solar Infrared Tran. (780-2000nm)        | n/a               |
| <b>Road use and driving requirements</b> |                   |
| • Red Q Quotient                         | 0.84% Pass        |
| • Yellow Q Quotient                      | 0.89% Pass        |
| • Green Q Quotient                       | 1.07% Pass        |
| • Blue Q Quotient                        | 1.07% Pass        |

