### VISION EASE Polarized Lenses

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

<table>
<thead>
<tr>
<th>Lens Type</th>
<th>Type 1 Polarizing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Function and Shade</td>
<td>General purpose lens</td>
</tr>
<tr>
<td>UVB Exposure Category</td>
<td>High and prolonged exposure</td>
</tr>
<tr>
<td>UVA Exposure Category</td>
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</tr>
</tbody>
</table>

**Transmittance requirements**

- **Luminous Tran. (380-780nm)**: 11.67%
- **Mean Tran. UVB or Erythemal Zone (290-315nm)**: 0.012% Pass
- **Mean Tran. UVA or Near Zone (315-380nm)**: 0.019% Pass
- **Near Infrared Tran. (780-1400nm)**: n/a

**Road use and driving requirements**

- **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

**Traffic Signal Transmittance**

- **Red Traffic Signal Transmittance**: 10.84% Pass
- **Yellow Traffic Signal Transmittance**: 10.90% Pass
- **Green Traffic Signal Transmittance**: 13.15% Pass

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

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<th>Filter Category</th>
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**Transmittance requirements**

- **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)**: 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

**Road use and driving requirements**

- **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
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**Traffic Signal Transmittance**

- **Red Traffic Signal Transmittance**: 10.84% Pass
- **Yellow Traffic Signal Transmittance**: 10.90% Pass
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**European Standard (EN 1836:2005)**

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**Transmittance requirements**

- **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)**: 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

**Road use and driving requirements**

- **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%