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): 10.72%
- Mean Tran. UVB or Erythemal Zone (290-315nm): 0.0% Pass
- Mean Tran. UVA or Near Zone (315-380nm): 0.0% Pass
- Near Infrared Tran. (780-1400nm): n/a

Road use and driving requirements

- Spectral Transmittance
  - Minimum Spectral Tran. (500-650nm): 6.61% Pass
- Color limits
  - Yellow Traffic Signal, X Chromaticity Coordinate: 0.5759
  - Yellow Traffic Signal, Y Chromaticity Coordinate: 0.4241
  - Green Traffic Signal, X Chromaticity Coordinate: 0.2051
  - Green Traffic Signal, Y Chromaticity Coordinate: 0.4017
  - Average Daylight, D65 X Chromaticity Coordinate: 0.47
  - Average Daylight, D65 y Chromaticity Coordinate: 0.43

Traffic Signal Transmittance

- Red Traffic Signal Transmittance: 18.68% Pass
- Yellow Traffic Signal Transmittance: 14.40% Pass
- Green Traffic Signal Transmittance: 8.31% Pass


<table>
<thead>
<tr>
<th>Filter Category</th>
<th>3</th>
</tr>
</thead>
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<td>Polarizing</td>
</tr>
</tbody>
</table>

Transmittance requirements

- Luminous Tran. (380-780nm): 10.72%
- Maximum Spectral Tran. (280-350nm): 0.0% Pass
- Maximum Spectral Tran. (315-350nm): 0.0% Pass
- Maximum Solar UVA Tran. (315-380nm): 0.0% Pass
- Minimum Solar UVA Tran. (350-650nm): 1.75%
- 100% protection claim (optional)
- Solar UVB Tran. (280-315nm): 0.0% Pass
- Solar UVA Tran. (315-400nm): 0.0% Pass
- Solar UV Tran. (280-400nm): 0.0% Pass
- Solar Blue Light Tran. (400-500nm): 2.10%
- Solar Infrared Tran. (780-2000nm): n/a

Road use and driving requirements

- Red Q Quotient: 1.7% Pass
- Yellow Q Quotient: 1.4% Pass
- Green Q Quotient: 0.8% Pass
- Blue Q Quotient: 0.8% Pass

European Standard (EN 1836:2005)

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<th>3</th>
</tr>
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Transmittance requirements

- Luminous Tran. (380-780nm): 10.72%
- Maximum Spectral Tran. (280-350nm): 0.0% Pass
- Maximum Spectral Tran. (315-350nm): 0.0% Pass
- Maximum Solar UVA Tran. (315-380nm): 0.0% Pass
- Solar UVB Tran. (280-315nm): 0.0% Pass
- Solar UVA Tran. (315-380nm): 0.0% Pass
- Solar UV Tran. (280-380nm): 0.0% Pass
- Solar Blue Light Tran. (380-500nm): 2.10%
- Solar Infrared Tran. (780-2000nm): n/a

Road use and driving requirements

- Red Q Quotient: 1.7% Pass
- Yellow Q Quotient: 1.4% Pass
- Green Q Quotient: 0.8% Pass
- Blue Q Quotient: 0.8% Pass

Polarized Efficiency

>99%