# VISION EASE Polarized Gray

## 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>
<td>High and prolonged exposure</td>
</tr>
</tbody>
</table>

### Transmittance requirements

- **Luminous Tran. (380-780nm)**: 15.63%
- **Mean Tran. UVB or Erythemal Zone (290-315nm)**: 0.0% Pass
- **Mean Tran. UVA or Near Zone (315-380nm)**: 0.2% Pass
- **Near Infrared Tran. (780-1400nm)**: n/a

### Road use and driving requirements

#### Spectral Transmittance

- **Minimum Spectral Tran. (500-650nm)**: 14.50% Pass

#### Color limits

- Yellow Traffic Signal, X Chromaticity Coordinate: 0.5771
- Yellow Traffic Signal, Y Chromaticity Coordinate: 0.4229
- Green Traffic Signal, X Chromaticity Coordinate: 0.2105
- Green Traffic Signal, Y Chromaticity Coordinate: 0.3947
- Average Daylight, D65 X Chromaticity Coordinate: 0.32
- Average Daylight, D65 Y Chromaticity Coordinate: 0.34

#### Traffic Signal Transmittance

- Red Traffic Signal Transmittance: 16.45% Pass
- Yellow Traffic Signal Transmittance: 15.49% Pass
- Green Traffic Signal Transmittance: 15.74% Pass

## European Standard (EN 1836:2005)

### Filter Category

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

### Transmittance requirements

- **Luminous Tran. (380-780nm)**: 15.63%
- **Maximum Spectral Tran. (280-350nm)**: 0.0% Pass
- **Maximum Spectral Tran. (315-350nm)**: 0.0% Pass
- **Maximum Solar UVA Tran. (315-380nm)**: 0.2% Pass
- **100% protection claim (optional)**
- **Solar UVB Tran. (280-315nm)**: 0.0% Pass
- **Solar UVA Tran. (315-380nm)**: 0.2% Pass
- **Solar UV Tran. (280-380nm)**: 0.1% Pass
- **Solar Blue Light Tran. (380-500nm)**: 13.89%
- **Solar Infrared Tran. (780-2000nm)**: n/a

### Road use and driving requirements

- **Minimum Solar UVA Tran. (350-650nm)**: 14.50% Pass
- **Red Q Quotient**: 1.0% Pass
- **Yellow Q Quotient**: 1.0% Pass
- **Green Q Quotient**: 1.0% Pass
- **Blue Q Quotient**: 1.1% Pass


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

### Transmittance requirements

- **Luminous Tran. (380-780nm)**: 15.63%
- **Maximum Spectral Tran. (280-350nm)**: 0.0% Pass
- **Maximum Spectral Tran. (315-350nm)**: 0.0% Pass
- **Maximum Solar UVA Tran. (315-380nm)**: 0.2% Pass
- **Minimum Solar UVA Tran. (350-650nm)**: 14.33%
- **100% protection claim (optional)**
- **Solar UVB Tran. (280-315nm)**: 0.0% Pass
- **Solar UVA Tran. (315-380nm)**: 0.2% Pass
- **Solar UV Tran. (280-380nm)**: 0.1% Pass
- **Solar Blue Light Tran. (400-500nm)**: 13.89%
- **Solar Infrared Tran. (780-2000nm)**: n/a

### Road use and driving requirements

- **Minimum Spectral Tran. (500-650nm)**: 14.50% Pass
- **Red Q Quotient**: 1.0% Pass
- **Yellow Q Quotient**: 1.0% Pass
- **Green Q Quotient**: 1.0% Pass
- **Blue Q Quotient**: 1.1% Pass

## Polarized Efficiency

> 99%

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