

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

<b>Lens Type</b>	<b>Type 1 Polarizing</b>
<b>Primary Function and Shade</b>	<b>General purpose lens</b>
<b>UVB Exposure Category</b>	<b>High and prolonged exposure</b>
<b>UVA Exposure Category</b>	<b>High and prolonged exposure</b>
<b>Transmittance requirements</b>	
Luminous Tran. (380-780nm)	14.90%
Mean Tran. UVB or Erythral Zone (290-315nm)	0.0% Pass
Mean Tran. UVA or Near Zone (315-380nm)	0.1% Pass
Near Infrared Tran. (780-1400nm)	n/a
<b>Road use and driving requirements</b>	
Spectral Transmittance	
Minimum Spectral Tran. (500-650nm)	14.17% Pass
<b>Color limits</b>	
Yellow Traffic Signal, X Chromaticity Coordinate	0.5762
Yellow Traffic Signal, Y Chromaticity Coordinate	0.4226
Green Traffic Signal, X Chromaticity Coordinate	0.2078
Green Traffic Signal, Y Chromaticity Coordinate	0.4003
Average Daylight, D65 X Chromaticity Coordinate	0.32
Average Daylight, D65 y Chromaticity Coordinate	0.37
<b>Traffic Signal Transmittance</b>	
Red Traffic Signal Transmittance	14.99% Pass
Yellow Traffic Signal Transmittance	14.69% Pass
Green Traffic Signal Transmittance	15.19% 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)	14.90%
Maximum Spectral Tran. (280-350nm)	0.0% Pass
Maximum Spectral Tran. (315-350nm)	0.1% Pass
Maximum Solar UVA Tran. (315-380nm)	0.1% Pass
100% protection claim (optional)	
Solar UVB Tran. (280-315nm)	0.0% Pass
Solar UVA Tran. (315-380nm)	0.1% Pass
Solar UV Tran. (280-380nm)	0.1% Pass
Solar Blue Light Tran. (380-500nm)	11.00%
Solar Infrared Tran. (780-2000nm)	n/a
<b>Road use and driving requirements</b>	
Minimum Spectral Tran. (500-650nm)	13.67% 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%

## 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)	14.90%
Maximum Spectral Tran. (280-350nm)	0.0% Pass
Maximum Spectral Tran. (315-350nm)	0.1% Pass
Maximum Solar UVA Tran. (315-380nm)	0.1% Pass
Minimum Solar UVA Tran. (350-650nm)	11.00%
100% protection claim (optional)	
Solar UVB Tran. (280-315nm)	0.0% Pass
Solar UVA Tran. (315-400nm)	0.1% Pass
Solar UV Tran. (280-400nm)	0.1% Pass
Solar Blue Light Tran. (400-500nm)	11.00%
Solar Infrared Tran. (780-2000nm)	n/a
<b>Road use and driving requirements</b>	
• Red Q Quotient	1.0% Pass
• Yellow Q Quotient	1.0% Pass
• Green Q Quotient	1.0% Pass
• Blue Q Quotient	1.1% Pass

