

American Standard (ANSI Z80.3:2008)

Lens Type	Type 1 Polarizing
Primary Function and Shade	General purpose lens
UVB Exposure Category	High and prolonged exposure
UVA Exposure Category	High and prolonged exposure
Transmittance requirements	
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
Road use and driving requirements	
Spectral Transmittance	
Minimum Spectral Tran. (500-650nm)	14.17% Pass
Color limits	
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
Traffic Signal Transmittance	
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)

Filter Category	3
Filter Type	Polarizing
Transmittance requirements	
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
Road use and driving requirements	
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

Australian Standard (AS/NZS 1067:2003)

Filter Category	3
Filter Type	Polarizing
Transmittance requirements	
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
Road use and driving requirements	
• Red Q Quotient	1.0% Pass
• Yellow Q Quotient	1.0% Pass
• Green Q Quotient	1.0% Pass
• Blue Q Quotient	1.1% Pass

