

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)	9.52%
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)	6.89% Pass
Color limits	
Yellow Traffic Signal, X Chromaticity Coordinate	0.5766
Yellow Traffic Signal, Y Chromaticity Coordinate	0.4234
Green Traffic Signal, X Chromaticity Coordinate	0.2048
Green Traffic Signal, Y Chromaticity Coordinate	0.3976
Average Daylight, D65 X Chromaticity Coordinate	0.36
Average Daylight, D65 y Chromaticity Coordinate	0.35
Traffic Signal Transmittance	
Red Traffic Signal Transmittance	12.53% Pass
Yellow Traffic Signal Transmittance	10.79% Pass
Green Traffic Signal Transmittance	8.67% Pass

European Standard (EN 1836:2005)

Filter Category	3
Filter Type	Polarizing
Transmittance requirements	
Luminous Tran. (380-780nm)	9.52%
Maximum Spectral Tran. (280-350nm)	0.0% Pass
Maximum Spectral Tran. (315-350nm)	0.0% 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)	0.0% Pass
Solar UV Tran. (280-380nm)	0.1% Pass
Solar Blue Light Tran. (380-500nm)	6.70%
Solar Infrared Tran. (780-2000nm)	n/a
Road use and driving requirements	
Minimum Spectral Tran. (500-650nm)	7.66% Pass
• Red Q Quotient	1.3% Pass
• Yellow Q Quotient	1.1% Pass
• Green Q Quotient	0.9% Pass
• Blue Q Quotient	1.0% Pass

Polarized Efficiency

>99%

Australian Standard (AS/NZS 1067:2003)

Filter Category	3
Filter Type	Polarizing
Transmittance requirements	
Luminous Tran. (380-780nm)	9.52%
Maximum Spectral Tran. (280-350nm)	0.0% Pass
Maximum Spectral Tran. (315-350nm)	0.0% Pass
Maximum Solar UVA Tran. (315-380nm)	0.1% Pass
Minimum Solar UVA Tran. (350-650nm)	6.89%
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)	6.70%
Solar Infrared Tran. (780-2000nm)	n/a
Road use and driving requirements	
• Red Q Quotient	1.3% Pass
• Yellow Q Quotient	1.1% Pass
• Green Q Quotient	0.9% Pass
• Blue Q Quotient	1.0% Pass

