

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)	11.67%
Mean Tran. UVB or Erythral Zone (290-315nm)	0.012% Pass
Mean Tran. UVA or Near Zone (315-380nm)	0.019% Pass
Near Infrared Tran. (780-1400nm)	n/a
Road use and driving requirements	
Spectral Transmittance	
Minimum Spectral Tran. (500-650nm)	9.43% Pass
Color limits	
Yellow Traffic Signal, X Chromaticity Coordinate	0.5710
Yellow Traffic Signal, Y Chromaticity Coordinate	0.4277
Green Traffic Signal, X Chromaticity Coordinate	0.1842
Green Traffic Signal, Y Chromaticity Coordinate	0.3538
Average Daylight, D65 X Chromaticity Coordinate	0.2683
Average Daylight, D65 y Chromaticity Coordinate	0.2876
Traffic Signal Transmittance	
Red Traffic Signal Transmittance	10.84% Pass
Yellow Traffic Signal Transmittance	10.90% Pass
Green Traffic Signal Transmittance	13.15% Pass

European Standard (EN 1836:2005)

Filter Category	3
Filter Type	Polarizing
Transmittance requirements	
Luminous Tran. (380-780nm)	12.30%
Maximum Spectral Tran. (280-350nm)	0.0183% Pass
Maximum Spectral Tran. (315-350nm)	0.0140% Pass
Maximum Solar UVA Tran. (315-380nm)	0.0224% Pass
100% protection claim (optional)	
Solar UVB Tran. (280-315nm)	0.02% Pass
Solar UVA Tran. (315-380nm)	0.01% Pass
Solar UV Tran. (280-380nm)	0.01% Pass
Solar Blue Light Tran. (380-500nm)	17.28%
Solar Infrared Tran. (780-2000nm)	n/a
Road use and driving requirements	
Minimum Spectral Tran. (500-650nm)	9.43% Pass
• Red Q Quotient	0.84% Pass
• Yellow Q Quotient	0.89% Pass
• Green Q Quotient	1.07% Pass
• Blue Q Quotient	1.07% Pass

Polarized Efficiency

>99%

Australian Standard (AS/NZS 1067:2003)

Filter Category	3
Filter Type	Polarizing
Transmittance requirements	
Luminous Tran. (380-780nm)	12.30%
Maximum Spectral Tran. (280-350nm)	0.0183% Pass
Maximum Spectral Tran. (315-350nm)	0.0140% Pass
Maximum Solar UVA Tran. (315-380nm)	0.0224% Pass
Minimum Solar UVA Tran. (450-650nm)	9.43%
100% protection claim (optional)	
Solar UVB Tran. (280-315nm)	0.02% Pass
Solar UVA Tran. (315-400nm)	0.027% Pass
Solar UV Tran. (280-400nm)	0.044% Pass
Solar Blue Light Tran. (400-500nm)	17.32%
Solar Infrared Tran. (780-2000nm)	n/a
Road use and driving requirements	
• Red Q Quotient	0.84% Pass
• Yellow Q Quotient	0.89% Pass
• Green Q Quotient	1.07% Pass
• Blue Q Quotient	1.07% Pass

