Coppertone HEV Brown

American Standard (ANSI Z80.3:2008)

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Transmittance requirements

- Luminous Tran. (380-780nm) 16.7%
- Mean Tran. UVA or Near Zone (315-380nm) 0.0% Pass
- Near Infrared Tran. (780-1400nm) n/a

Road use and driving requirements

Spectral Transmittance
- Minimum Spectral Tran. (500-650nm) 9.51% Pass
- Color limits
  - Yellow Traffic Signal, X Chromaticity Coordinate 0.5777
  - Yellow Traffic Signal, Y Chromaticity Coordinate 0.4223
  - Green Traffic Signal, X Chromaticity Coordinate 0.2029
  - Green Traffic Signal, Y Chromaticity Coordinate 0.4058
- Average Daylight, D65 X Chromaticity Coordinate 0.47
- Average Daylight, D65 y Chromaticity Coordinate 0.42

Traffic Signal Transmittance
- Red Traffic Signal Transmittance 27.03% Pass
- Yellow Traffic Signal Transmittance 20.47% Pass
- Green Traffic Signal Transmittance 11.81% Pass


Filter Category 3

Filter Type Polarizing

Transmittance requirements

- Luminous Tran. (380-780nm) 16.7%
- Maximum Spectral Tran. (280-350nm) 0.0% Pass
- Maximum Spectral Tran. (315-350nm) 0.0% Pass
- Maximum Solar UVA Tran. (315-380nm) 0.0% 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) 0.0% Pass
- Solar Blue Light Tran. (380-500nm) 3.3%
- Solar Infrared Tran. (780-2000nm) n/a

Road use and driving requirements

- Red Q Quotient 1.7% Pass
- Yellow Q Quotient 1.4% Pass
- Green Q Quotient 0.8% Pass
- Blue Q Quotient 0.8% Pass

European Standard (EN 1836:2005)

Filter Category 3

Filter Type Polarizing

Transmittance requirements

- Luminous Tran. (380-780nm) 16.7%
- Maximum Spectral Tran. (280-350nm) 0.0% Pass
- Maximum Spectral Tran. (315-350nm) 0.0% Pass
- Maximum Solar UVA Tran. (315-380nm) 0.0% 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) 0.0% Pass
- Solar Blue Light Tran. (380-500nm) 3.3%
- Solar Infrared Tran. (780-2000nm) n/a

Road use and driving requirements

- Minimum Spectral Tran. (500-650nm) 9.51% Pass
- Color limits
  - Yellow Traffic Signal, X Chromaticity Coordinate 0.5777
  - Yellow Traffic Signal, Y Chromaticity Coordinate 0.4223
  - Green Traffic Signal, X Chromaticity Coordinate 0.2029
  - Green Traffic Signal, Y Chromaticity Coordinate 0.4058
- Average Daylight, D65 X Chromaticity Coordinate 0.47
- Average Daylight, D65 y Chromaticity Coordinate 0.42
- Traffic Signal Transmittance
  - Red Traffic Signal Transmittance 27.03% Pass
  - Yellow Traffic Signal Transmittance 20.47% Pass
  - Green Traffic Signal Transmittance 11.81% Pass

Polarized Efficiency >96.5%