

# Reading glasses and spectacle frames testing services

## Help your eyewear meet global regulations and protect your brand.

With increased consumer expectations, buying a pair of reading glasses or spectacle frames is not just to improve vision but must also offer comfort with designer style. Many countries enforce requirements for reading glasses and spectacle frames, such as ISO 12870, ISO 16034, EN 14139, ANSI Z80.31, AS/NZS ISO 16034, GB/T 14214, GB 13511.1, GB 13511.2, etc.

UL has the capability to test your reading spectacles and spectacle frames according to different country standards. In the European market, both reading spectacles and spectacle frames are classified as class 1 medical devices under Medical Device Directive 93/42/EEC (MDD) and have the CE marking on products. Meanwhile all reading glasses and finished mounted spectacles must comply with U.S. Federal Food and Drug Administration (FDA) requirements (21CFR 801.410) in the United States.

Testing requirements for reading glasses:

- Dimensional tolerance
- Bridge deformation and lens retention
- Resistance to ignition
- Resistance to perspiration
- Design reference points
- Optical power
- Endurance
- Transmittance
- Mechanical strength
- Nickel release
- And more

Testing requirements for spectacle frames:

- Dimensional tolerances on nominal size
- Resistance to optical radiation
- Resistance to perspiration
- Resistance to ignition
- Dimensional stability at elevated temperatures
- Endurance Nickel release
- Bridge deformation
- Lens retention
- And more

Today, UL is advancing its commitment to protecting people, products and places through expert advisory resources, offering an extensive array of services to our diverse customers that support every stage of the product life cycle, from the testing of new technologies to market access. Our network of more than 170 testing and certification facilities in 40 countries helps drive the integrity of global supply chains, optimize product performance and protect brands.



For more information to find how UL can help you with sunglasses testing services please visit [CRS.UL.com](https://www.crs.ul.com).



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