

Fabrication Fact

Non-Glare Glass & Gloss Units

Non-Glare or Anti-Glare glass breaks up incident light reflected images, allowing the user to focus on the display image versus the reflected images. Unlike anti-reflection coated or untreated surfaces, anti-glare etched glass does not become highly reflective as a result of oily finger prints.

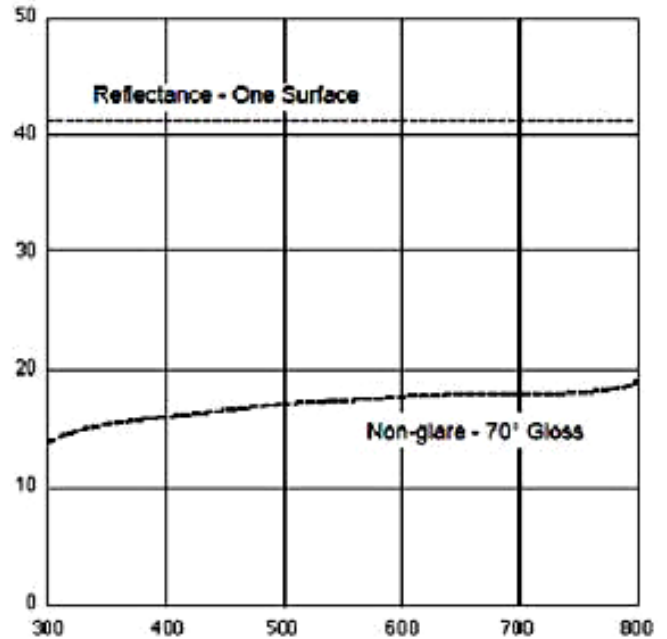
Abrisa Technologies anti-glare glass is manufactured by a controlled acid etch process yielding uniform diffused surfaces for anti-glare, high resolution.

Varying levels of diffusion specified as gloss yield different levels of reduced glare. A lower gloss reading denotes a more diffuse panel. The more diffuse the panel surface, the more glare reduction it provides. However, an inverse relationship exists between the degree of diffusion and the panel's resolution.

Specular Gloss & Gloss Units

Specular gloss is quantified by measuring the amount of light reflected from the sample and comparing it with the amount of light reflected when a polished black glass calibration standard is measured under the same conditions. The glass standard is assigned a value of 100 gloss units. Any surface that reflects more light than the black glass standard will produce a glossmeter reading of greater than 100 gloss units.

The glossmeter illuminates a test surface at a defined angle of incidence and measures the amount of light at a defined angle of reflection. Since basic physics tells us that the angle of incidence is equal to the angle of reflection, it is convenient to refer to one angle only and this is generally referred to as the "geometry" of the instrument.



The lower the gloss units, the less glare. Abrisa Technologies can provide non-glare or anti-glare soda lime glass with the following gloss unit specifications:

- 60° – This is the highest level of etching, least amount of glare and reflectivity
- 65°
- 75°
- 90°
- 100°
- 110°
- 120°
- 130°

140° – This is the lowest level of gloss, most similar to untreated glass

Application Note

Non-Glare Glass & Gloss Units

Glass Fabrication



Coating Deposition



CNC Machining



Strengthening - Chemical & Heat



Screen Printing of Graphics



Abrisa Technologies, a member of HEF Photonics, is a globally recognized technology glass fabrication and optical thin film coating company with expertise in high volume manufacturing and engineering capabilities, delivering Total Solutions that provide excellent performance, fitness-for-use and economies of scale.

Our US based, state-of-the-art ISO 9001:2015 and ITAR registered facilities include Abrisa Industrial Glass in Santa Paula, CA and ZC&R Coatings for Optics in Torrance CA. These two divisions produce solutions from cut-to-order coated glass components to custom complex and ready-to-install fabricated, strengthened, optically coated, electronically enabled and branded sub-assemblies.

Our Total Solutions serve a variety of markets including Micro-Electronics, Defense and Avionics, Display, Industrial Automation, Optical Sensors, Imaging, Photonics, Medical & Dental, Life Science and more.



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