

# Application Note: Low Sparkle Non-Glare Glass

## Low Sparkle Non-Glare Glass

### 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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Your Total Solution Partner

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## Low Sparkle Non-Glare Glass for Uniform Diffuse Reflection

“Sparkle” occurs when non-glare glass is used with a display and has a surface where the etch pattern size and roughness has variation resulting in inconsistent, insufficient, or unpredictable light diffusion effects in select areas of the glass. An observer sees this variation projected through the glass as artifacts of distorted pixel color, shape, pinpoint light leaks, or points of reflection that are not sufficiently or correctly diffused which were not present in the display itself. These artifacts are referred to as “Sparkle” and affect perceived display resolution and image quality.

Low Sparkle Non-Glare Glass provides sharp rendering of images with increased clarity for easily readable devices in direct sunlight. The reduced glare afforded by the diffusion of reflected light makes it ideal for interactive flat panel and touch displays, tablets, e-readers, and digital signage. It is key to understand that not all non-glare glass performs the same even with similar gloss levels.

Our Low Sparkle Non-Glare Glass is produced using a high tech etch process resulting in a fine, well controlled and consistent micro etch roughness. When applied to our colorless low iron soda lime float glass the process produces a consistent “Low Sparkle” non-glare performance with low haze, optimal contrast, paper-like tactile feel, and true color rendering.



### Specifications:

Thicknesses: 1.1 – 6.0 mm

Standard Gloss Levels: 40, 60, 90, 120

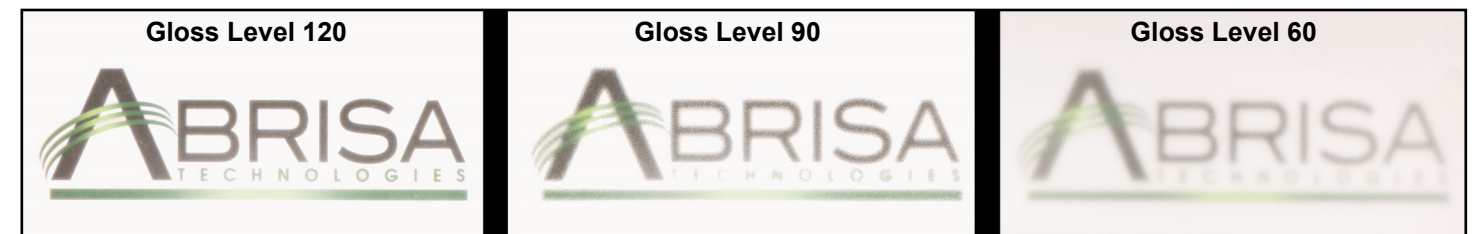
Sheet Size Availability: 40” x 63” (1016 - 1600 mm)

### Features:

- Uniform Diffuse Reflection
- Colorless Low Iron Glass
- Low Haze & Good Clarity
- Paper-Like Tactile Feel

### Total Solution Options:

- Machining, Drilling, Cutting
- Screen Printing
- Strengthening (Heat & HIE™ Chemical)
- Laser Etching & Unique Identifier Marking
- Anti-Reflective (AR) & Oleophobic Coatings
- Applied Safety & Optical Film



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