

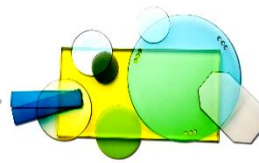
Display Solutions for the World's Electronic Display Industry



HIE™ Glass



Fabrication



Coatings



Graphics

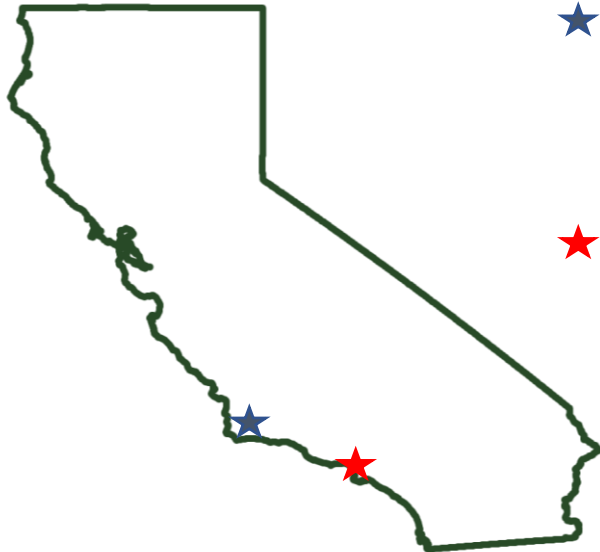


Protection



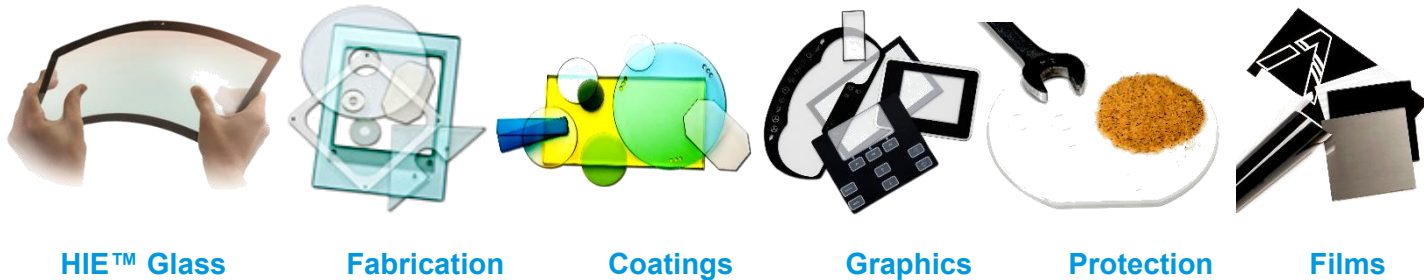
Films

We are Abrisa Technologies – Your Total Solution Partner



- ★ **Abrisa Industrial Glass (AIG), Santa Paula, CA – [ISO Cert](#)**
This 100,000+ sq. ft. manufacturing facility is dedicated to solution-based, industrial flat glass manufacturing, products and services, including screen-printing, etching, cutting and edging, CNC machining, higher level assembly, and more.
- ★ **ZC&R Coatings for Optics (ZC&R), Torrance, CA – [ISO Cert](#)**
This 21,000 sq. ft. manufacturing facility offers custom and OEM precision coating solutions for optical thin film products. ZC&R's PVD and ION-assist depositions provide a wide range of standard and custom coatings to meet our customer's ever evolving needs.

About Abris Technologies



Abris Technologies' broad scope of design and manufacturing capabilities, vertical integration, and single-point accountability allows you to put your trust in one company for supply chain simplicity, convenience, reduced cost of ownership, and delivery of verified and certified product(s) every time.

- **Float & Specialty HIE™ Glasses in mm to meter sizes**
- **Specializing in Ultra-Thin Glass – as low as 0.03 mm Borosilicate & Aluminosilicates**
- **Fabrication for Shape & Features to Your Specific Needs**
- **Chemical or Heat Strengthening for Damage Resistance**
- **Coatings for Filtering, Throughput Reflection & Conductivity**
- **Screen Printing for Electrical Connectivity, Branding & Displays**
- **Value-Added Assembly Films, Chemistry, ID Marking, Laser Cut Gaskets & Masks**

Your Total Solution Partner

We listen to our customers' wholistic needs.

As **Your Total Solution Partner**, we offer a unique suite of specialized expertise, volume manufacturing experience, vertically integrated capabilities, and services to fulfill your display needs, now and into the future.

It begins with understanding your market challenges, applications, and collaborating with you from concept to production, every step of the way. Customers know they can rely on Abrisa Technologies for:

- **Expertise in Both Glass Technology & Optical Coatings**
- **Manufacturable Solutions with Optimized Fitness-for-Use**
- **Over 40 Years of Experience in Volume Manufacturing**
- **Unique & Integrated Capabilities for Ready-to-Install Solutions**
- **Total Solution Product Verification & Certification**
- **Program, Inventory management & Other Commercial Services**
- **Innovation & Production Needs, Now & for Years to Come**



Abrisa Technologies offers complete display glass solutions for:

- **Combo Scanner/Information Displays**
- **Avionics/Vehicular Navigation Displays**
- **Outdoor & Field Portable Displays**
- **Biocompatible Medical Instrument Displays**
- **Wearables, 3-D Augmented (AR) , Virtual Reality (VR)**
- **Large Heads-Up, Video Wall & Gaming Displays**
- **Interactive Touch Control Panel Displays**
- **Hospitality Mirror/Display Combinations**



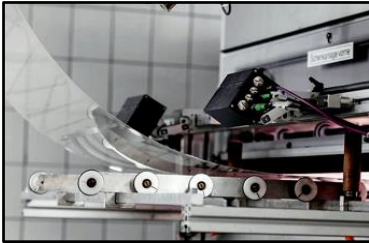
Well-stocked inventory of strengthened and un-strengthened glass:

- **Glass Selection:** Strengthened HIE™ Aluminosilicates, Borosilicates, Low/Non-Alkaline, Cut-to-Order Float glass with & without Anti-Reflection (AR) Coating, Non-Glare & Specialty Ultra-Thin (< 0.2mm) Technology Glass
- **Performance Criteria:** Optical, Thermal, Chemical, Electrical & Mechanical Properties
- **Sizes:** mm's to 0.03mm Thick, Displays from mm's to meters. Large Sheet Sizes Available for Fabrication Versatility

Total Solutions - Glass Fabrication, Strengthening, Coatings, Graphics & Value-Add:

- **Fabrication:** Waterjet & Precision CNC for Custom Formats & Registered Features for Airtight Seals
- **Damage Resistance:** Chemical Strengthening, Heat Toughening or Tempering on Large Selection of Glass
- **Optical Coating:** Thin film Coating Solutions (Anti-Reflective, ITO, Filter, UV/IR Block, Oleo/Hydrophobic)
- **Screen Printing:** Graphics, Bus Bars, Aesthetic & Branding
- **Ready-to-Install Services:** Optical, Aesthetic & Safety Films, Mounting Tape & Gaskets, Masking, Laser Marking ID

Abrisa Technologies' Display Solutions



Ultra-Thin SCHOTT AS 87 eco Aluminosilicate Glass



SCHOTT D 263[®] T eco Ultra-Thin Glass



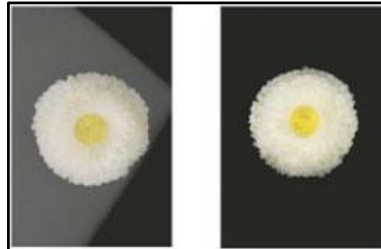
PRO-NG[™] 120 HIE[™] Non-Glare Glass



SCHOTT Borofloat[®] 33 Borosilicate Float Glass



Semi-Transparent Mirrors for Hidden Displays



Low Reflection & Non-Glare Glass Solutions



Vehicular Information Display & Interface Applications



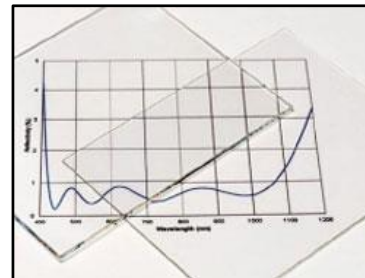
CleanVue[™] Pro Oleophobic & Hydrophobic Coating Solutions



Dead Front Panels for Backlit User Interfaces



Total Solutions for Ready-to-Install Enhancement Glass



Sensor & Scanner Window Solutions

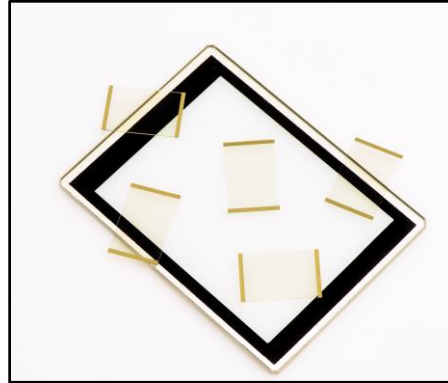


Large 84" Diagonal HI-OD[™] Screen Printed Display Glass Solutions

Abrisa Technologies' Display Solutions



Thin & Ultra-Thin Lightweight Mirrors
(0.1mm – 0.55mm)



Bus Bars for Transparent Conductive
Coatings



On-Demand Laser
Cut Gaskets & Masks



Low Sparkle Non-Glare Glass



PRO-HC-VIS1 Anti-Abrasion
Hard Coat Clear Glass



Laser Marked Display Graphics
On-Demand

In-Stock Ultra-Thin HIE™ Aluminosilicate & Borosilicates

Ultra-Thin Glass Material	Thickness Availability
HIE™ Strengthened Aluminosilicates	
<u>SCHOTT AS 87 eco</u>	0.1, 0.145, 0.21, 0.25 & 0.33 mm
<u>Corning® Gorilla® Glass 3</u>	0.4, 0.55, 0.8, 1.1, 1.5 & 2.0 mm
<u>AGC Dragontrail™</u>	0.8 & 1.1 mm
Low or Non-Alkaline Borosilicates	
<u>SCHOTT D263® T eco</u>	0.03, 0.05, 0.07, 0.1, 0.145, 0.175, 0.21, 0.25, 0.3, 0.4, 0.5, 0.55, 0.7, 0.9, 1.0, 1.1 mm
<u>Corning® Eagle XG®</u>	0.7 & 1.1 mm
<u>AGC EN-A1</u>	0.3, 0.5 & 0.7 mm



Specialty Ultra-Thin Material (< 0.2mm) Processing:

- Complex Shape Fabrication
- HIE™ Special Materials Strengthening
- Optical Coating (Including Glass & Silicon Wafers)
- Screen Printing (Graphics, Conductive/Bus Bars)
- Applied Films, Gaskets, Oleophobic/Hydrophobics



Thinner, Lighter, Stronger

More and more applications are requiring thinner, lighter and stronger glass with enhanced flexibility and/or damage resistance. Virtual & augmented reality platforms, wearables, displays, scanners, touch pads, and windows are typical applications requiring this rugged ultra-thin glass while the reduction in weight improves portability.

ABRISA HEF PHOTONICS Your Total Solution Partner

SCHOTT D 263^T eco Ultra-Thin Glass

Miniaturization • Mobility • Microfluidics • Opto-Electronics

SCHOTT D 263^T eco is a clear, lightweight, low fluorescence, borosilicate glass available from Abrisa Technologies in thicknesses from 0.10 mm to 1.1 mm with excellent transmission and high chemical resistance. The glass is made with the SCHOTT specific draw method that results in excellent surface finish and low surface roughness typically 1.1 nm rms range. Abrisa Technologies specializes in ultra-thin glass fabrication and optical coating as well as, screen printing, laser marking, oleophobic coating, and other value added services.

D 263^T eco makes an excellent choice for ultra lightweight mobility and scanning applications, ultra-low profile displays and devices, micro-electronics, sensors, chemical process resistant slides, and sample platforms.

Applications:

- Lightweight Windows and Mirrors for Mobility
- Wide-Band Micro-Optics for AR/VR and Telecom
- Optical Caps for Sensors and Diodes
- Ultra-Thin TIC Heaters and Bus Bars
- Biotech Sample and Slide Surfaces
- Sunlight and Heat Resistant In-Cabin Displays
- Low Profile Displays/Human Interface
- Low Abkall Mobility for Active Matrix Displays
- Ultra-Thin Cover Glass
- Additive Optical/Mechanical Attributes

Thickness	Thickness Tolerance
0.10 mm	$\pm 10 \mu\text{m}$
0.05 mm	$\pm 10 \mu\text{m}$
0.07 mm	$\pm 10 \mu\text{m}$
0.1 mm	$\pm 10 \mu\text{m}$
0.145 mm	$\pm 10 \mu\text{m}$
0.175 mm	$\pm 10 \mu\text{m}$
0.21 mm	$\pm 10 \mu\text{m}$
0.26 mm	$\pm 10 \mu\text{m}$
0.3 mm	$\pm 15 \mu\text{m}$
0.4 mm	$\pm 15 \mu\text{m}$
0.5 mm	$\pm 15 \mu\text{m}$
0.55 mm	$\pm 15 \mu\text{m}$
0.7 mm	$\pm 20 \mu\text{m}$
0.8 mm	$\pm 25 \mu\text{m}$
1.0 mm	$\pm 30 \mu\text{m}$
1.1 mm	$\pm 30 \mu\text{m}$

Sheet Sizes:

- 510 mm x 430 mm ± 0.2 mm (Thickness)
- 440 mm x 360 mm ± 0.2 mm (Thickness)

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ABRISA HEF PHOTONICS Your Total Solution Partner

SCHOTT BOROFLOAT[®] 33 Borosilicate Float Glass

Optical Windows • Image Sensing • Hot Mirrors • Filters • 3D • Displays

BOROFLOAT[®] 33 is a UV-NIR transparent borosilicate float glass with excellent optical properties and smooth low scatter surfaces straight off the float process. It is an economical high performance material, making it ideal for the volume manufacture of windows, mirrors, filters, display glass, 3D build platforms, and other components. BOROFLOAT[®] 33's composition lends itself to outstanding thermal resistance and sharp impact crack resistance, making it an excellent choice for challenging use environments. Abrisa Technologies offers a wide selection of glass, custom fabrication, heat toughening, optical coating, electrical conductivity, screen printing, applied films, oleophobics, laser marking, and more for a total solution.

Features:

- Optical Quality Borosilicate Glass
- High Transparency/Color Neutral
- Broad Spectral Range UV-VIS-NIR
- High Thermal Resistance (Shock & Gradient)
- Crack Resistant to Sharp Impact
- Low Thermal Expansion for Tight Seals

Applications:

- Outdoor V/S-NIR Image Sensing
- "True Color" Medical Imaging
- High Intensity Lighting & Curing Filters
- Heated 3D Additive Build Platforms
- Industrial Sign Glass View Ports
- Specialty Ruggedized Displays

High Performance Optical Windows*

Standard Sheet Sizes	Thickness
1,150 x 850 mm	0.7 - 25.4 mm
1,700 x 1,300 mm	16.0 - 21.0 mm
2,300 x 1,700 mm	0.7 - 15.0 mm

Sheet Thickness	Thickness Tolerance
0.70 to 2.25 mm	± 0.05 mm
2.75 mm	± 0.10 mm
3.30 to 5.50 mm	± 0.20 mm
7.50 to 13.00 mm	± 0.30 mm
15.00 mm	± 0.40 mm

Broad UV-VIS-NIR Transmission:

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Ultra-Thin SCHOTT AS 87 eco Aluminosilicate Glass

Touch Screens • Biometric & Image Sensors • Cover Glass

SCHOTT AS 87 eco is an ultra-thin aluminosilicate glass with extremely high levels of bending and impact strength and superior scratch resistance. It's an excellent choice for use as cover or enhancement glass on low profile displays, touch sensors and other applications where thickness and weight are a concern. Abrisa Technologies also provides the material with optional HE[™] chemical strengthening for even higher levels of Knoop and Vicker's hardness, perfect for applications with high contact and frequent handling. Custom fabrication to size and shape, optical coatings, screen printed graphics and oleophobic coatings. Total Solutions are available.

Benefits:

- Ultra-Thin for Low Profile Designs
- Optional HE[™] Strengthening
- High Impact Damage Resistant
- Excellent Clear Visual Quality
- Broad Transmission Range (UVB to IR)
- ROHS and REACH Compliant

Sheet Sizes:

- 19.685" x 15.748" (500 mm x 400 mm)

Slack Thicknesses: * If mass can be reasonably strengthened

- 0.100 mm (0.0035" - 0.0043")
- 0.145 mm (0.0053" - 0.0061")
- 0.210 mm (0.0076" - 0.0088")
- 0.250 mm (0.0092" - 0.0104")
- 0.330 mm (0.0124" - 0.0136")

Applications:

- Cover Glass for Displays & Touch Panels
- Screen Protectors for Mobile Devices
- Fingerprint Sensor
- Ultra-Thin Glass Applications
- Medical & Bio-Medical
- Automotive Interiors
- Camera Imaging

High Impact & Bend Strength

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ABRISA HEF PHOTONICS Your Total Solution Partner

PRO-NG[™] 120 • HIE[™] Non-Glare Aluminosilicate

High-Contact • Wide-Angle Viewing • Sunlight Readable • Portable

Abrisa Technologies' PRO-NG[™] 120, High-Ion Exchange (HIE[™]) non-glare aluminosilicate provides 120 gloss level glare reduction in an extra-thin, lightweight format with up to 10x the strength of standard soda lime float. This new HIE[™] strengthened non-glare material is ideal for installed or portable displays with large viewing angles and/or in need of brightness readability where thinner profile, lightweight, and enhanced durability is key. PRO-NG[™] 120 is ideal for ruggedized or high-contact displays used in cockpit, cabin, portable field instruments, signature pads, and industrial equipment control panels where both management of glare and high clarity, low haze viewing of the display is key.

Display & Indicator Applications:

- Ruggedized Portable Devices
- In-Cockpit Monitoring & Navigation Systems
- In-Vehicle Wide-Angle Displays
- Outdoor Sunlight Readable Displays
- High-Contact Touch Control Panels
- Lightweight, Slim Profile Hand Helds

Formats & Options:

- Sheet Sizes up to 400 x 500 mm
- Thickness 1.1 mm
- Other sizes, thicknesses, coatings & oleophobics may be available upon request - Consult Factory

General Properties: (Typical)

PRO-NG [™] 120 Property	Single Side Non-Glare
Glass Value	120-120
Transmission	>80%
Reflection (photopic)	~6%
Density (g/cm ³)	2.48
Refractive Index (n@589nm pair)	1.425

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HEF[®] PHOTONICS

Your Total Solution Partner

SCHOTT D 263[®] T eco Ultra-Thin Glass

Miniaturization • Mobility • Microfluidics • Opto-Electronics

SCHOTT D 263[®] T eco is a clear, lightweight, low fluorescence, borosilicate glass available from Abrisatechnologies in thicknesses from 0.03 mm to 1.1 mm with excellent transmission and high chemical resistance. The glass is made with the SCHOTT specific down-draw method that results in excellent surface finish and low surface roughness typically < 1 nm rms range. Abrisatechnologies specializes in ultra-thin glass fabrication and optical coating as well as, screen printing, laser marking, oleo/hydrophobic coating, and other value added services.

D 263[®] T eco makes an excellent choice for ultra lightweight mobility and scanning applications, ultra-low profile displays and devices, micro-electronics, sensors, chemical process resistant slides, and sample platforms.

Applications:

- Lightweight Windows and Mirrors for Mobility
- Wafer-Based Micro-Optics for AR/VR and Telecom
- Optical Caps for Sensors and Diodes
- Ultra-Thin ITO Heaters and Bus Bars
- Biotech Sample and Slide Surfaces
- Sunlight and Heat Resistant In-Cabin Displays
- Low Profile Displays/Human Interface
- Low Alkali Mobility for Active Matrix Displays
- Ultra-Thin Cover Glass
- Additive Optical/Mechanical Attributes

Sheet Sizes:

- 510 mm x 430 mm > 0.2 mm (Thickness)
- 440 mm x 360 mm ≤ 0.2 mm (Thickness)

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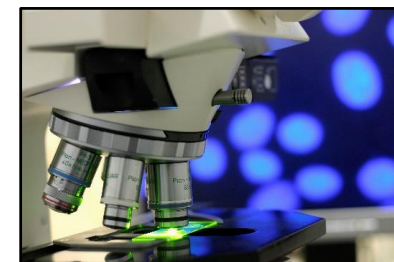
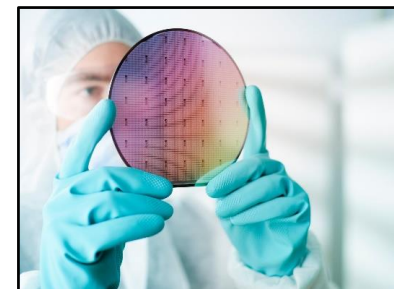
Thickness	Thickness Tolerance*
0.03 mm**	±10 µm
0.05 mm**	±10 µm
0.07 mm**	±10 µm
0.1 mm	±10 µm
0.145 mm	±10 µm
0.175 mm	±10 µm
0.21 mm	±15 µm
0.25 mm	±15 µm
0.3 mm	±15 µm
0.4 mm	±15 µm
0.5 mm	±15 µm
0.55 mm	±15 µm
0.7 mm	±20 µm
0.9 mm	±25 µm
1.0 mm	±30 µm
1.1 mm	±30 µm

* (acc. to SEMI MF 1530 GBIR) - ** Special Request Only



Applications:

- Lightweight Windows & Mirrors
- Wafer-Based Micro-Optics
- Optical Caps for Sensors & Diodes
- Ultra-Thin ITO Heaters & Bus Bars
- Biotech Sample & Slide Surfaces
- Heat Resistant In-Cabin Displays
- Low Profile Human Interface
- Low Alkali – Active-Matrix Displays
- Ultra-Thin Cover Glass
- Additive Optical Attributes



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HEF[®] PHOTONICS

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SCHOTT BOROFLOAT[®] 33 Borosilicate Float Glass

Optical Windows • Image Sensing • Hot Mirrors • Filters • 3D • Displays

BOROFLOAT[®] 33 is a UV-NIR transparent borosilicate float glass with excellent optical properties and smooth low scatter surfaces straight off the float process. It is an economical high performance material, making it ideal for the volume manufacture of windows, mirrors, filters, display glass, 3D build platforms, and other components. BOROFLOAT[®] 33's composition lends itself to outstanding thermal resistance and sharp impact crack resistance, making it an excellent choice for challenging use environments. Abris Technologies offers a wide selection of glass, custom fabrication, heat toughening, optical coating, electrical connectivity, screen printing, applied films, oleophobic, laser marking, and more for a Total Solution.



High Performance Optical Windows*

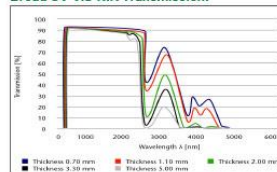
Standard Sheet Sizes:

Standard Sheet Sizes	Thickness
1,150 x 850 mm	0.7 - 25.4 mm
1,700 x 1,300 mm	16.0 - 21.0 mm
2,300 x 1,700 mm	0.7 - 15.0 mm

Standard Sheet Thicknesses:

Sheet Thickness	Thickness Tolerance
0.70 to 2.25 mm	± 0.05 mm
2.75 mm	± 0.10 mm
3.30 to 6.50 mm	± 0.20 mm
7.50 to 13.00 mm	± 0.30 mm
15.00 mm	± 0.40 mm

Broad UV-VIS-NIR Transmission:



Features:

- Optical Quality Borosilicate Glass
- High Transparency/Color Neutral
- Broad Spectral Range UV-VIS-NIR
- High Thermal Resistance (Shock & Gradient)
- Crack Resistant to Sharp Impact
- Low Thermal Expansion for Tight Seals

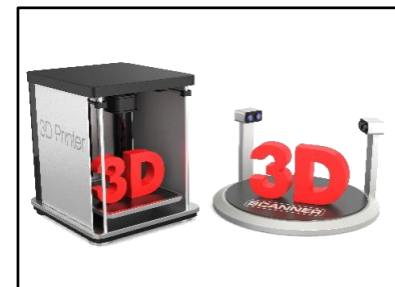
Applications:

- Outdoor VIS-NIR Image Sensing
- "True Color" Medical Imaging
- High Intensity Lighting & Curing Filters
- Heated 3D Additive Build Platforms
- Industrial Sight Glass View Ports
- Specialty Ruggedized Displays

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Applications:

- Outdoor VIS-NIR Image Sensing
- "True Color" Medical Imaging
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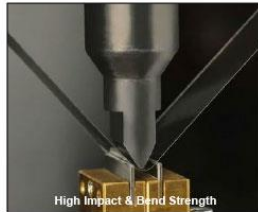
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Ultra-Thin SCHOTT AS 87 eco Aluminosilicate Glass

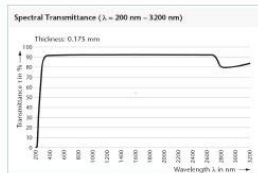
Touch Displays • Biometric & Image Sensors • Cover Glass

SCHOTT AS 87 eco is an ultra-thin aluminosilicate glass with extremely high levels of bending and impact strength and superior scratch resistance. It's an excellent choice for use as cover or enhancement glass on low profile displays, touch sensors and other applications where thickness and weight are a concern. Abrisatechnologies also provides the material with optional HIE™ chemical strengthening for even higher levels of Knoop and Vicker's hardness, perfect for applications with high contact and frequent handling. Custom fabrication to size and shape, optical coatings, screen printed graphics and oleophobic coatings Total Solutions are available.



Benefits:

- Ultra-Thin for Low Profile Designs
- Optional HIE™ Strengthening
- High Impact Damage Resistant
- Excellent Clear Visual Quality
- Broad Transmission Range (UVB to IR)
- RoHS and REACH Compliant



Sheet Sizes:

- 19.685" x 15.748" (500 mm x 400 mm)

Stock Thicknesses: (These can be chemically strengthened)

- 0.100 mm (0.0035" - 0.0043")
- 0.145 mm (0.0053" - 0.0061")
- 0.210 mm (0.0076" - 0.0088")
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Applications:

- Cover Glass for Displays & Touch Panels
- Screen Protectors for Mobile Devices
- Fingerprint Sensor
- Ultra-Thin Glass Applications
- Medical & Bio-Medical
- Automotive Interiors
- Camera Imaging

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Applications:

- Cover Glass Displays & Touch Panels
- UAV/Drone Applications
- Screen Protector for Mobile Devices
- Fingerprint Sensors
- Ultra-Thin Glass Applications
- Medical & Bio-Medical
- Automotive Interiors
- Camera Imaging





HEF[®] PHOTONICS

Your Total Solution Partner

PRO-NG™ 120 - HIE™ Non-Glare Aluminosilicate

High-Contact • Wide-Angle Viewing • Sunlight Readable • Portable

Abrisa Technologies' PRO-NG™ 120, High-Ion Exchange (HIE™) non-glare aluminosilicate provides 120 gloss level glare reduction in an extra-thin, lightweight format with up to 6x the strength of standard soda lime float. This new HIE™ strengthened non-glare material is ideal for installed or portable displays with large viewing angles and/or in need of bright/sunlight readability where thinner profile, lightweight, and enhanced durability is key. PRO-NG™ 120 is ideal for ruggedized or high-contact displays used in cockpit, cabin, portable field instruments, signature pads, and industrial equipment control panels where both management of glare and high clarity, low haze viewing of the display is key.



Formats & Options:

- Sheet Sizes up to 400 x 500 mm
- Thickness 1.1 mm
- Other sizes, thicknesses, coatings & oleophobics may be available upon request - Consult Factory

General Properties: (Typical)

PRO-NG™ 120 Property	Single Side Non-Glare
Gloss Value	120 ±20
Transmission	>89%
Reflection (photopic)	~8%
Density (g/cm ³)	2.48
Resolution (line/mm pair)	14.25

Display & Indicator Applications:

- Ruggedized Portable Devices
- In-Cockpit Monitoring & Navigation Systems
- In-Vehicle Wide-Angle Displays
- Outdoor Sunlight Readable Displays
- High-Contact Touch Control Pads
- Lightweight, Slim Profile Hand-Helds

Features:

- Extra-Thin & Lightweight
- HIE™ Ultra-Strong & Scratch Resistant
- Wide-Angle Non-Glare
- Excellent Resolution
- Reduced Fingerprint Visibility

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Applications:

- Ruggedized Portable Displays
- In-Cockpit Navigation Systems
- In-Vehicle Wide Angle Displays
- Sunlight Readable Displays
- High-Contact Touch Control Pads
- Lightweight, Slim Hand-Helds



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Medical/Lab Displays & Platforms



- **Bio-Compatible Coatings & Glass**
- **White/Pantone Color Matching**
- **Damage Resistant HIE™ Glass**
- **Heated & Anti-Fogging Windows**
- **Thin Glass Slide Fabrication & Coating**
- **Laser Etched Unique Identifiers: QR, LOT & S/N**
- **Easy-to-Clean Surfaces**
- **Safety Enhancements**



Medical/Lab Displays & Platforms



- Bio-Compatible Coatings & Glass
- White/Pantone Color Matching
- Damage Resistant HIE™ Glass
- Heated & Anti-Fogging Windows
- Thin Glass Slide Fabrication & Coating
- Laser Etched Unique Identifiers: QR, LOT & S/N
- Easy-to-Clean Surfaces
- Safety Enhancements

Robust Medical Display

- Copying® Gorilla® Glass
- Biocompatible Coating Option
- Specialty Window Free Ink Graphics
- Clean/Hygiene Options

ABRISA

WHITE 20 8565

Interactive Touch/Control Panels/Displays



- Ready-to-Install Panels
- Scratch Resistant HIE™ Materials
- Ultra-Thin 0.1mm Coated Glass
- Tactile Touch 3D Glass Features
- Precision Insets & Panel Features
- Gray, Filtered Glass & Coatings
- Smudge Resistant Solutions
- Color Matched Branding



Wearables/Virtual Reality Displays



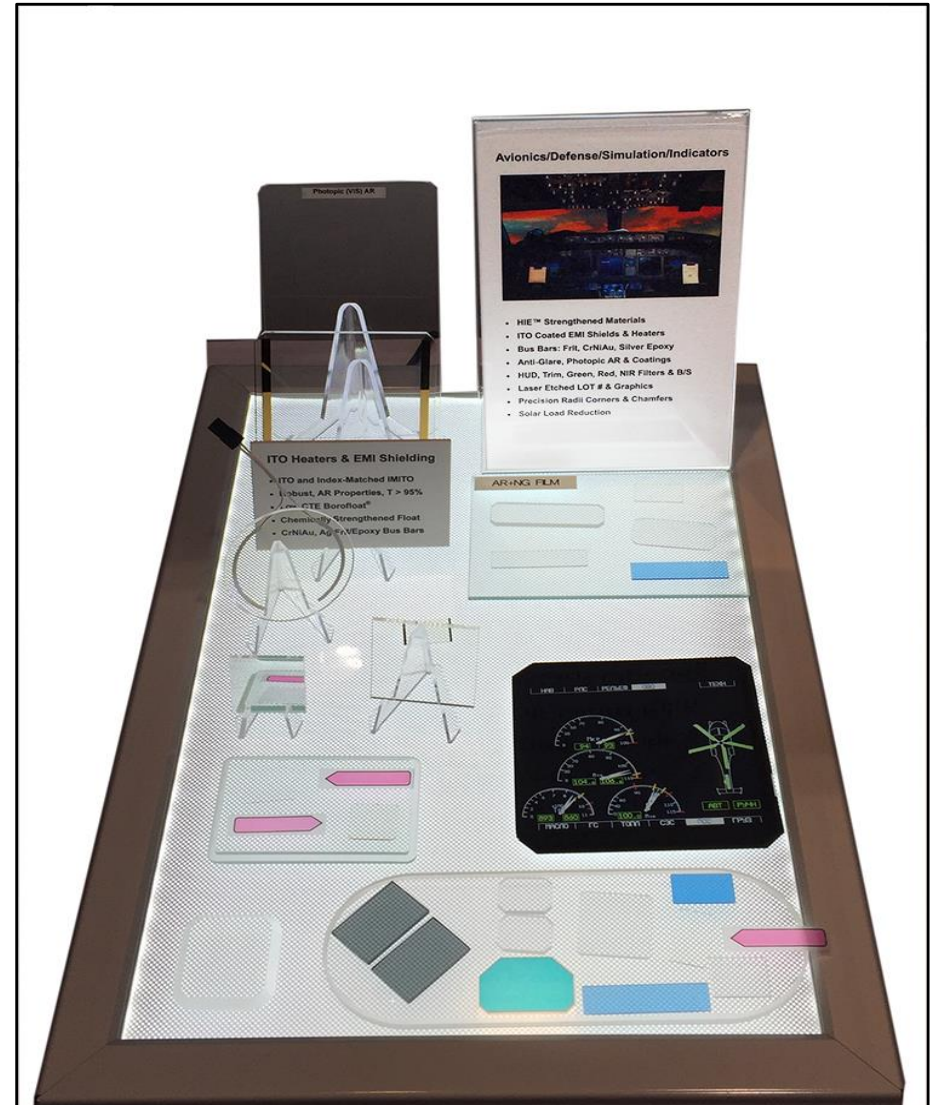
- Lightweight, Low Profile
- Flexible, Small, Ultra-Thin
- Thin 0.1mm Glass Shaping & Coating
- Near-to-Eye Coated Optics & Filters
- Singulated, Diced & Coated Wafers
- Press Fit Mounting Tolerances
- Flush Mounted “Infinity” Edges
- Ready-to-Install Packaging



Avionics/Defense/Simulation/Indicators



- HIE™ Strengthened Materials
- ITO Coated EMI Shields & Heaters
- Bus Bars: Frit, CrNiAu, Silver Epoxy
- Anti-Glare, Photopic AR & Coatings
- HUD, Trim, Green, Red, NIR Filters & B/S
- Laser Etched LOT # & Graphics
- Precision Radii Corners & Chamfers
- Solar Load Reduction



“Hidden/Privacy/Multi-Function Displays”



- Scanner/Display Combos
- “Hidden” LCD Partial Mirrors
- Elegant Exposes Edge Finishes
- Streamline Dead Front Panels
- Pantone Color Matched Graphics
- Applied Privacy & Anti-Glare Film
- HIE™ Damage Resistant Options
- Laser Etched Graphics



Outdoor/Portable/Handheld Displays/Windows



- Lightweight Clear HIE™ Lenses
- Damage Resistant Surfaces
- Corrosion, Solar Resistant Graphics
- Sunlight Readable AR/Anti-Glare
- UV & Solar Suppression Solutions
- Gray, Tint, Safety, Anti-Fog Films
- Moisture Seal & Damping Gaskets
- Oleo/Hydrophobic Coatings



Transportation/Vehicle/Displays/Scanners



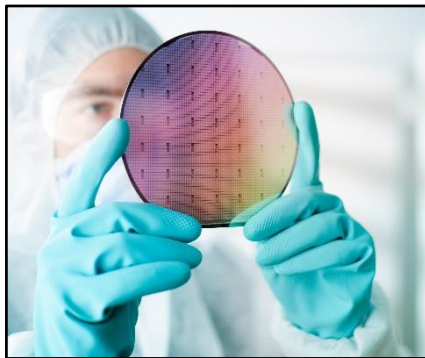
- Anti-Scratch HIE™ & Hard Coat Surfaces
- Gauge & Infotainment Displays
- HUD, Obstacle Avoidance, LiDAR
- Anti-Glare/Anti-Reflection Glass
- Laser Scanning Mirrors & Filters
- Seamless Dead Front Control Panels
- Custom Shapes & Precision Fit Edges
- Digital Imaging Filters & Windows





Display – Digital, Immersive & Interactive Displays

- Damage Resistant HIE™ Thin & Ultra-Thin Aluminosilicates
- Hidden LCD Mirrors, Dead Front Graphics
- Sunlight Readable Coatings & UV/IR Blockers
- Near-to-Eye Display Partial Transmitters
- Ultra-Thin, Lightweight & Flexible Glass



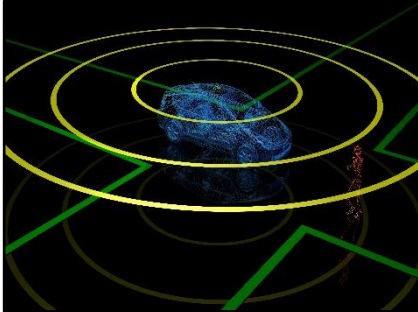
Micro-Opto/Semiconductor – Wafer Components, Process Tools

- Transparent Conductive Coatings (ITO/IMITO)
- Anti-Reflective, Metallic, Filter & Dichroic Coatings
- Wafers, Coatings, Bus Bars, Dicing
- Protective & Epoxy Compatible Coatings
- Cleanroom Protocol, Ultrasonic Cleaning



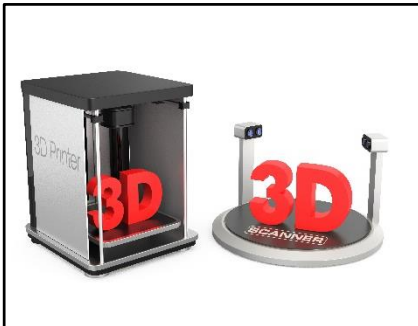
Medical/Dental/Bio – 3D Imaging, Surgical, Biosensors

- Bio/Chemical Compatible Components
- Autoclavable Mirrors & Windows
- Heated Biocompatible Sample Windows
- Wavelength Selective Filters
- AR, Filter & Scanner Coatings



Imaging/Sensors – Security/Threat, Lidar (autonomous), Traffic

- Wide View 0-52° Sensor Windows
- Broad Spectrum Windows UV/VIS, VIS/NIR, SWIR
- Damage Resistant HIE™ Glass
- Dead Front Control Panels
- Oleo/Hydrophobic Solutions Cleanable Solutions



Industrial - 3D Printing, Machine Vision, Process Control

- Laser Scan Mirrors & Windows
- Bandpass & Contrast Enhancement Filters
- Low Expansion ED Printing Build Platforms
- UV Transmissive Coatings for Curing
- Ultra-Thin Touch Panel Glass



Defense/Avionics – Controls, Targeting, Threat Detection, Simulation

- EMI Shielded ITO Enhancement Glass
- SWP, Covert, Blackout, Signal Selective Filters
- Non-Glare (NG) Glass & Damage Resistant HIE™ Glass
- HUD/HMD Beam Splitters, Scanning Mirrors
- Anti-Fog (ITO) Heated Transparencies



HEF[®] PHOTONICS

Glass Fabrication



Coating Deposition



CNC Machining



Strengthening Chemical & Heat



Screen Printed Graphics



Contact Us



Get a Quote

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