Damage Resistant Glass
HIE™ Aluminosilicates

High Ion-Exchange (HIE™) aluminosilicate glass is a strong, lightweight, colorless and flexible glass that achieves high levels of damage resistance for scratch, break, impact and shock combined with good optical clarity. It is an excellent choice for use as protective enhancement glass for display, imaging and sensor systems where low profiles, low weight, portability and environmental robustness is desired.

Abrisa Technologies offers in house custom fabrication to shape the specially designed materials followed by the unique High Ion Exchange (HIE) salt bath chemical strengthening processes to achieve very high surface compressive strength and depth of layer. Total Solution Enhancements with easy-to-clean oleo/hydrophobic optical coatings, ceramic frit graphics and bus bars are also available.

Advantages:
- Thin, lightweight and low profile
- Scratch, crack, break and shock resistant
- Up to 20X the compressive strength of conventional soda lime float glass

Applications:
- Display & Touch Screen Cover & Back Plate Glass
  - Projected Capacitive (PCAP) Touch
  - Surface Acoustic Wave (SAW)
  - Acoustic Pulse Recognition (APR)
  - Multi-touch
  - Optical Touch
  - Projected Displays
- Protective Windows
  - Image sensors
  - Scanner beds
  - Instrument displays
  - Gauge displays
- Optical Components
  - Break resistant substrates

Abrisa Technologies can supply the following HIE™ glass substrates to meet your specific needs:
- Asahi (AGC) Dragontrail™
- Corning® Gorilla® Glass
- SCHOTT Xensation™

Dimensions:
- Thicknesses: 0.4mm - 2mm in stock
- Standard Sizes: Up to 36” x 29” (914 x 736.6mm)
- Non-standard sizes available upon request

Options:
- Custom machining and fabrication
- Oleo/hydrophobic properties
- Optical coatings
- Custom frit graphics

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