

AR Cover Glass – Technical Datasheet

Product Overview

AR Cover Glass (Anti-Reflective Cover Glass) is a high-performance glass engineered with advanced magnetron sputtering coating technology. It is designed to significantly reduce surface reflection and increase light transmission, providing superior optical clarity, durability, and protection for sensitive displays and optical components. It is ideal for applications demanding high image quality in various lighting conditions.

Key Features & Benefits

- **Exceptional Optical Clarity:** Average visible light transmittance over 95% (up to 99% peak), minimizing light loss and enhancing display brightness and color vividness.
- **Effective Reflection Reduction:** Surface reflectance lowered to below 2% (as low as 0.2%), drastically reducing glare and improving contrast and readability in bright environments.
- **Superior Surface Hardness:** Coating hardness $\geq 7H$, offering excellent resistance to scratches and abrasion, ensuring long-term durability.
- **Enhanced Durability:** Excellent environmental resistance, passing tests for acid, alkali, solvent, and temperature cycling, ensuring reliable performance.
- **Comprehensive Protection:** Provides strong anti-impact performance and can effectively block harmful ultraviolet light.

Technical Specifications

Item	Specification
Coating Type	Anti-Reflective (AR)
Surface Appearance	Matte / Clear / Smooth
Light Transmittance	Customized
Haze	Customized
Reflectance	Customized
Thickness Range	0.5 – 6.0 mm
Glass Type	Tempered / Chemically Strengthened / Low-Iron
Coating Side	Single / Double Side
Durability	Industrial Grade

Applications

AR Cover Glass is versatile and suitable for a wide range of high-end applications where optical performance is critical:

- **Display & Touch Screens:** LCD/PDP TVs, Monitors, Laptops, Tablets, Outdoor Kiosks, Industrial HMI Panels.
- **Optical Devices:** Camera lenses, Medical instrument displays, Microscopes, Spectroscopy equipment.
- **Specialized Glass:** Museum display cases, High-end picture frames, Instrument panels, Solar panel cover glass (enhancing transmittance).
- **Emerging Tech:** Cover glass for image sensors, laser diodes, and optical components requiring specific wavelength transmission.

Quality Assurance & Standards

Products are manufactured under a strict quality management system.

Can be supplied in tempered or heat-strengthened form for enhanced safety and strength.

Specific products comply with relevant international and national standards (e.g., GB/T for solar glass).

Ordering Information

- **Customization:** We specialize in providing customized solutions. Parameters such as size, thickness, coating performance (e.g., specific wavelength transmittance over 99%), shape, and additional processing (tempering, printing, edging) can be tailored.
- **Packaging:** Products are carefully packaged in standard export-grade wooden crates or custom packaging to ensure safe delivery.
- **Sample:** Samples are available for quality verification upon request.

Project Support Sheet (Engineer Use)

For specific inquiries, custom specifications, or to discuss your project requirements, please fill below form and contact our sales team. We are committed to providing professional support and high-quality glass solutions.

Project Name	_____
Application Scenario	_____
Glass Size (L x W)	_____
Thickness	_____
Coating Requirement	_____
Optical Requirement	_____
Operating Environment	_____
Additional Notes	_____

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