





Anti-reflective Glass

New technologies are increasingly relying on high-performance displays to show images to users. Today, however, this is not the only field of use of Anti-Reflective glass, and a variety of applications can be imagined for this glass, all of which require better viewing clarity.

For appliances such as display panels, which may be exposed to direct or indirect sunlight, it is important that users always have a clear view of the display. There are many of such examples that require clear vision. The sharpness of the screen is dramatically improved by the use of very thin Anti-Reflective coatings to reduce the reflection of unwanted light on the screen surface.

Therefore, the performance of the Anti-Reflective coating can achieve the minimum reflection from all angles of view and for a wide range of wavelengths from ultraviolet (UV) to infrared (IR).



This function of Anti-Reflective glass can be used in situations where the need to reduce the reflection of unwanted light is felt, which is one of the common applications for this glass is the lens of eye glasses.

In fact, the coating on WGV Anti - Reflective glass, by changing the refractive index of incoming light, prevents its reflection and the transmission of light as much as possible.

WGV Anti-Reflective coatings can be produced in two forms using SINGLE SIDE COAT or DOUBLE SIDE COAT by PVD or Magnetron Sputtering technology, and with the double-sided coating layer of this glass, the parameters of light transmission (LT) and reflection (LR) are significantly improved.



Also, by laminating two single-side coated glass panes together, both the parameters of double-side coated glass can be achieved and the capabilities of laminated glass, including complete filtering of UV waves and safety when glass breaks, can be added to Anti-Reflective glass.

considering that this glass improves dramatically in optical parameters compared to clear glass and has about 6 to 7% less reflection, it can be given much attention as an alternative to clear glass in special consumption cases.



Applications

- Touch panels
- All types of monitors
- All displays of indoor environments such as offices, shopping centers, museums, showcases, partitions, etc.
- Picture frames
- Solar Panels

The tests of this production are performed according to the standard 16372/2.



	Clear Glass	Single Side Coat	Double Side Coat	Laminated 4+4
%T(Transmission)	89.3	92.5	95	91.5
%R (Reflection)	8.4	5.0	2.3	2.5

In the case of WGV Double-Sided Anti-Reflective glass,

Advantages

- Vision resolution in a variety of conditions
- Maximum use of sunlight
- Avoid visual error and diplopia
- Ability to produce in various dimensions and thicknesses (2-10mm)