

# Anti-reflective

## for a better light transmission



Reflection is the change of direction of a ray or wave that takes place at the surface of separation between two medias.

On traditional glass, it creates a mirror effect that limits the visibility of objects and people through the glass. It causes ghost images, multiple reflections and affects the appearance of the material.

Mainly in automotive interior sector, where the light transmission is a key for a good visibility, we use anti-reflective coating to avoid these annoying reflections.

## Why is the anti-reflective interesting?

### Anti-reflective improves the optical properties of the glass.

Anti-reflective is an optical coating that reduces reflection and increases the light transmission. As a result, it provides a better transparency and view through glass.

It is typically recommended when there is a great difference in brightness on one or both sides of the glass (such as e.g. : displays, windows, facades, panoramic terraces, etc.).

We use the most advanced coating technology currently available on the market. It consists in depositing a lamellar assembly of dielectric materials on the surface, allowing to create a destructive interference of the reflected component of the incident light.

This technique aims to reduce or even eliminate the reflection of light (in the visible range of electromagnetic spectrum).

#### High light transmission

Our anti-reflective coating reduces surface glare and increases substrate transmission and brightness offering better contrast and colour definition by reducing surface reflection over a specific wavelength range. In this way, it allows glass to enjoy a better global optical properties.

#### Available in large dimensions

Large format AR-coated glass are accessible without loss of quality.

#### Adaptable

Can be custom designed to meet your wavelength requirements.

#### Combination

If you add our anti-glare to the anti-reflective, you will improve the optical performance towards zero reflection. A dream coming true for display engineers. Some other treatments could be applied in combination with anti-reflective to improve the glass properties.

Easy-to-clean coating to reduce fingerprinting or hydrophobic topcoat to eliminate moisture buildup are just a few examples.

*The information contained in this data sheet is intended to assist you in designing with AGC materials. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. The user is responsible for determining the suitability of AGC materials for each application.*

**FeelInGlass®**, your new partner in thin glass

AGC Glass Europe SA, FeelInGlass® - Avenue Jean Monnet 4, 1348 Louvain-la-Neuve, Belgium - feelingglass@eu.agc.com