

## AGC's Light Control Glass, 'WONDERLITE™ Dx', Makes its Worldwide Debut in Toyota's New Harrier

Tokyo, June 18, 2020—AGC (Headquarters: Tokyo; President & CEO: Takuya Shimamura) has announced its light control glass, 'WONDERLITE™ Dx', has been adopted for the panoramic sunroof of Toyota's new Harrier, launched for sale on June 17, 2020. When used as vehicle exterior glass, this product boasts the world's fastest-response\*<sup>1</sup> time, enabling instantaneous control of light transmission. This marks the world's first-ever adoption\*<sup>1</sup> of this product in a mass production vehicle.

AGC's light control glass WONDERLITE™ Dx is composed of a specialized film encapsulated between layers of interlayer in laminated automotive glass. By softening the sun's glare in dimmed mode (opaque state) and providing a wide sense of openness in transparent mode (clear state), this product realizes a vehicle interior that allows pleasant light to pour in from the panoramic sunroof whenever the user wishes.



Dimmed mode (opaque state)\*<sup>2</sup>



Transparent mode (clear state)\*<sup>2</sup>

Under its **AGC plus** management policy, the AGC Group has made a commitment to create products that add various pluses for stakeholders. Pluses for society include 'safety', 'security', and 'comfort', while pluses for customers include 'new value' and 'functionality'. AGC is dedicated pursuing technological innovations that allow it to continue providing products that add new value and exceed customers' expectations.

\* 1: Based on AGC research.

\* 2: Photos do not represent the panoramic sunroof of the new Harrier model.

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### MEDIA INQUIRIES

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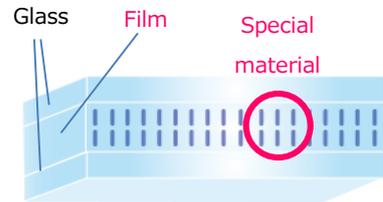
\*Handling of personal information is governed by our privacy policy.

REFERENCE

**Technical Overview of Light Control Glass 'WONDERLITE™ Dx'**

<Structure>

Light control glass is composed of a specialized film\*<sup>3</sup> encapsulated between layers of interlayer in laminated automotive glass. The film contained within is packed with a special material too small to be perceived by the naked eye. Around 99% of ultraviolet rays are blocked in both transparent and dimmed mode\*<sup>4</sup>.



\*<sup>3</sup> Special film made by Kyusyu Nanotec Optics Co.Ltd \*<sup>4</sup> Based on ISO9050 standards

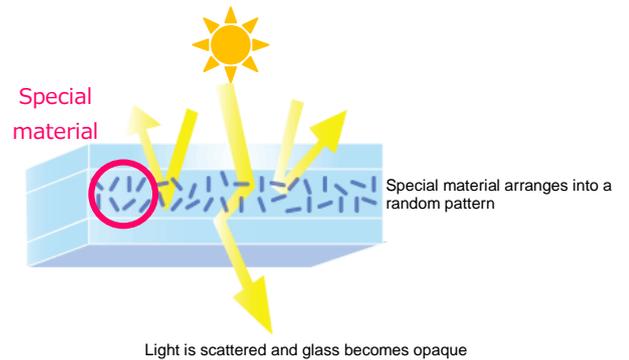
<Mechanism>

Voltage is used to control distribution and orientation of the special material in the film encapsulated between layers of interlayer in laminated, enabling instantaneous switching between transparent mode and dimmed mode.

**Dimmed mode (opaque state, when switched off)**



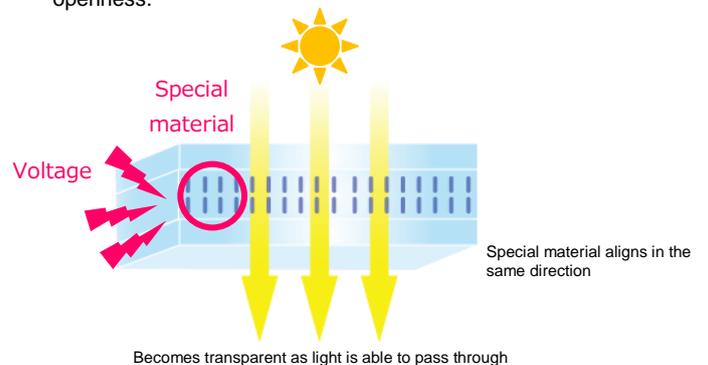
Once arranged into a random pattern, the special material diffuses light from the outside to turn opaque and reduce glare.



**Transparent mode (clear state, when switched on)**



When a voltage is applied to the film, the special material aligns in the same direction, becoming transparent as light is able to pass through. This provides a wide sense of openness.



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