## Industrial production of display cover glass: High accuracy at jumbo scale in glass micro-texturing

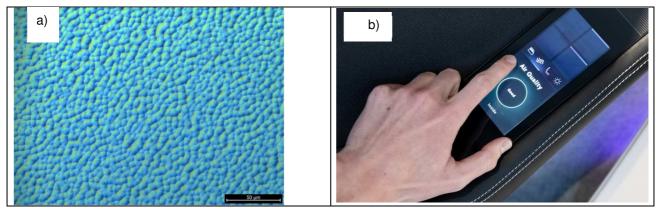
Eugénie Peyroux<sup>,1</sup>, Simge Danaci<sup>1</sup>, Nicolas Piret<sup>1</sup>, Loïck Dogot<sup>1</sup>

<sup>1</sup> AGC Technovation Centre, AGC Glass Europe, Gosselies, Belgium

Email: eugenie.peyroux@agc.com

Keywords: micro-texturation, acid-etching, soda-lime glass, anti-glare

AGC Glass Europe is a worldwide key player in the production of flat glass product for Automotive and Building applications. Starting with transparency, glass has constantly extended its range of properties in recent years. Nowadays AGC glass meets a growing range of requirements, from interior comfort and energy control to aesthetics, safety & health, sustainable energy, infotainment and communication. More particularly, the use of screens and HMI displays are constantly evolving and the cover glass requirements are more and more complex. Not only optical properties of glass cover has to be fine-tuned to the display resolution, but the mechanical resistance and sensory feelings are key requirements for the new products. Those properties are defined by both the nature of the glass and its micro-texturation. To achieve the micro-texturation at industrial scale, a specific frosting formulation with hydrofluoric acid is designed for each product and fine-tuned at industrial scale to insure a high level of homogeneity on large surface. And those industrial challenges are combined with a constant search to reduce the industrial footprint on the environment.



•••••

**Figures - a)** Image of optical microscopy of an anti-glare glare glass on Falcon glass **b)** Photo of a display with cold-bended textured extra-thin glass with specific sensatory properties