

July 21, 2020

Nippon Electric Glass Co., Ltd.

## **Successful Development of the World's Thinnest Glass as a Cover Glass for Foldable Displays**

Nippon Electric Glass Co., Ltd. (Head Office: Otsu, Shiga, Japan, President: Motoharu Matsumoto) has successfully developed Dinorex UTG™, the world's thinnest glass<sup>(\*)</sup> for chemical strengthening with a thickness of 25 μm (0.025 mm), as a cover glass for foldable displays.

The company has manufactured and supplied Dinorex™, glass for chemical strengthening developed for use as a cover glass on mobile handsets, such as smartphones and tablets, and for protection of onboard vehicle and other displays from scratches and shocks. This time, the extremely thin Dinorex UTG™, which is also available for foldable displays, has been added to its lineup.

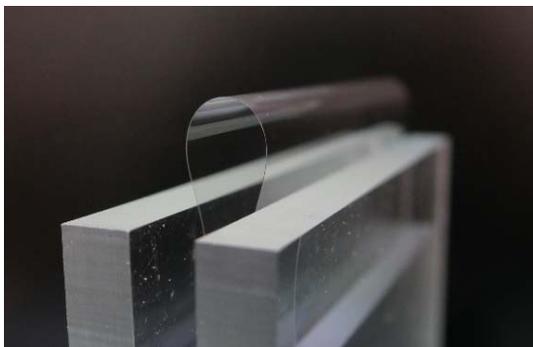
Dinorex UTG™ is formed by overflow technology cultivated in the manufacturing of our thin glass for displays and has excellent bending properties due to its high surface smoothness and uniform sheet thickness.

By using Dinorex UTG™ as a cover glass, it is possible to realize a highly reliable foldable display.

Previously, to make thin chemically strengthened glass, the slimming<sup>(\*\*)</sup> of a thick original sheet was necessary. To manufacture Dinorex UTG™, however, thin sheet glass can be made directly during the glass forming process, with no need for a slimming process. This leads to the reduction of environmentally hazardous materials and cost cutting.

The company will exhibit this product at the 2020 SID Virtual Display Week (August 3–7).

(URL: <http://www.displayweek.org/>)



Excellent bending properties achieved



Bend with a diameter of 3 mm (R1.5) made possible

(\*1) As glass for chemical strengthening directly formed using the overflow process. Surveyed by Nippon Electric Glass as of July 2020.

(\*2) A method to chemically and uniformly etch glass, using a chemical solution, to reduce the sheet thickness. Usually, hydrofluoric acid is used as a chemical solution.

[Product overview]

- |                              |                           |
|------------------------------|---------------------------|
| 1. Product name              | Dinorex UTG™              |
| 2. Available sheet thickness | 25, 30, 40, 50, 70–250 μm |
| 3. Shipping form             | Sheet and roll packing    |

As a leading manufacturer of special glass, Nippon Electric Glass is contributing to the development of the display industry by manufacturing and supplying high-quality glass. We are also actively involved in product development using our coating technologies, including those for making transparent electrodes and anti-reflection coating. We will continue to provide society with new value through the manufacturing of products that meet diverse needs, including the need for larger, thinner, and more flexible glass and more advanced coatings.