

## **Nippon Electric Glass Develops Extremely Thin Glass Ribbon with Thicknesses of 5 $\mu\text{m}$ to 50 $\mu\text{m}$**

Nippon Electric Glass Co., Ltd. (head office: Otsu, Shiga, Japan; President: Masayuki Arioka) has succeeded in developing glass in a ribbon-like form with a thickness of 5  $\mu\text{m}$  to 50  $\mu\text{m}$ . Glass ribbons can be made in various sizes to accommodate requests, with widths from 0.5 mm to 5.0 mm and lengths up to 100 m.

The glass ribbon is so thin that it can be bent or rolled up like a resin film. Although it is unpolished, the glass surface is extremely flat and smooth. The glass ribbon is characterized by rounded edges on both sides, as shown in the photo on the next page. This feature enables it to withstand bending and twisting.

Nippon Electric Glass has been engaged over the years in the development and production of ultra-thin sheet glass. The creation of extremely thin glass in an innovative ribbon-like form was achieved by applying the drawing process.

Glass has a number of excellent properties, such as chemical stability, heat resistance, and outstanding optical characteristics. It can also be utilized for electric insulation and its gas barrier properties. In addition, extremely thin glass ribbons can provide flexibility and workability. They can be wound on bobbins for storage and offer ease of handling.

Glass ribbons are expected to be used in a variety of applications, including electronic and optical communication devices and displays.

### ■ Dimensions

- Thickness: 5  $\mu\text{m}$  to 50  $\mu\text{m}$
- Width: 0.5 mm to 5.0 mm
- Length: Up to 100 m  
(Can accommodate requests)

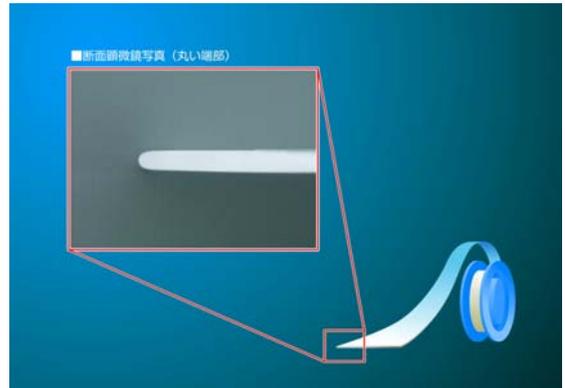
### ■ Versatility

A number of different glass ribbon materials are available to match various purposes and use conditions.

(The glass ribbon shown in the photo is made of borosilicate glass.)



Glass ribbon wound on a bobbin



Micrographic cross-section (rounded edge)