

October 5, 2017  
 Nippon Electric Glass Co., Ltd.

## Development of Flat Glass Fiber for Reinforcement of Thermoplastic Resin

Nippon Electric Glass Co., Ltd. (Head Office: Otsu, Shiga, Japan; President: Motoharu Matsumoto) has developed Flat Glass Fiber which features elliptical cross section. This glass fiber can be cut into chopped strands with elliptical cross sections of fixed lengths (3mm). After compounding with thermoplastic resin, the chopped strands can be molded with reduced warpage and improved dimensional stability as compared with conventional chopped strands with round cross sections. With our proprietary surface treatment for Flat Glass Fiber, further improved strength and surface condition performance can be expected.

We will exhibit Flat Glass Fiber at “Fakuma 2017 International Trade Fair for Plastics Processing” in Friedrichshafen, Germany, held from October 17, 2017.

### Product outline

#### 1. Advantage:

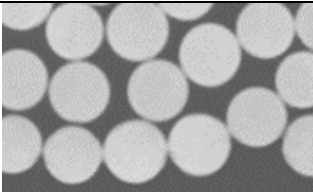

Warpage can be greatly reduced by using chopped strands with elliptical cross sections as compared to items molded using conventional chopped strands with round cross sections. (Please refer to the reference photographs)

#### 2. Shipment start: Scheduled for December, 2017

#### 3. Target market:

Glass fiber reinforced plastics market which requires dimensional stability and appearance quality in addition to strength, such as for smartphone and tablet device housings.

### Reference photographs

	Cross sections	Warpage tests
Round cross section chopped strands		
Elliptical cross section chopped strands	