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Nippon Electric Glass Co., Ltd.

Dinorex™ Adopted for In-vehicle Displays in the Latest Toyota Luxury Minivan Models

Cover glass for in-vehicle displays made by Nippon Electric Glass Co., Ltd. (Head Office: Otsu, Shiga Prefecture; President: Motoharu Matsumoto) is now used for the in-vehicle displays in the latest Toyota Alphard and Vellfire models, which were introduced to the Japanese market on January 6, 2020. The cover glass is basically a sheet of Dinorex™ (chemically strengthened special glass) that has undergone chemical strengthening, decorative printing, and thin film optical coating, and it serves as the surface protection cover for the in-vehicle displays.

The new Toyota Alphard and Vellfire are the most luxurious minivan models developed under the concept of “high-end passenger cars with huge interior space.” Our cover glass adopted for the 10.5 inch car navigation displays in these Toyota minivans has contributed to improving the convenience of the navigation displays by ensuring excellent visibility and operability. The unique texture and qualities the glass possesses also harmonize very well with the interiors of these minivans, which are designed to evoke a mood of luxury and class.



Interior of the new Toyota Vellfire



Car navigation display for which Dinorex™ is used

(Photos courtesy of Toyota Motor Corporation)

Over many years, a variety of thin film coating techniques developed by our company have been used for products across a broad spectrum of areas, including in-vehicle displays, medical monitors, and top plates for cooking appliances. In particular, our anti-reflection and anti-glare coatings, which we also design ourselves, provide optical performance superior to that of traditional types made by other companies by successfully achieving low reflectivity and high resolution at the same time. And, by adding anti-fingerprint properties to these coatings, the operability and durability of displays or devices are further enhanced. In addition to thin film coating techniques, through many years of experience in producing glass for smartphone and tablet displays, as well as for other products, we have developed

techniques for creating chemically strengthened special glass that is very resistant to scratches and impacts. We have now built our own supply chains wherein we manage all design, production, and quality management processes for in-car display cover glass ourselves utilizing our own cover glass production techniques (mentioned above). By effectively running our supply chains, we will continue to provide materials used in car interiors—which must achieve excellent reliability and need to meet high safety levels.