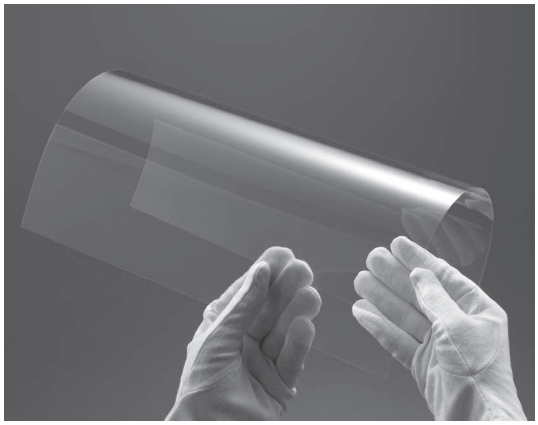
Ultra-thin Glass Laminated on Resin

Ref. No. 2610-44E

Lamion™

Lamion™ is a composite material of resin with ultra-thin glass G-Leaf™* laminated on one side via an adhesive layer. Lamion™ has features specific to glass such as abrasion resistance and gas barrier properties. It also has the flexibility of G-Leaf™. Lamion™ is easy to handle because it is tough compared with glass.
It is a suitable material for the Nano Imprint mold, given its low degree of expansion.

*G-Leaf™ is our ultra-thin glass with a thickness of 0.2mm (200μm) or less. See p. 4 and 5.



PET38μm + glass50μm

Features

- Flexibility
- Easy to handle
- Shatter resistance
- Low expansion
- High gas barrier properties
- Abrasion resistance (pencil hardness: 9H or more)

Combination Examples

Various types of resin, including polycarbonate (PC), acrylic (PMMA), PET, and PEN, can be adopted. The thickness of the glass and the resin and lamination structure can be changed to impart necessary features.

Lamion™ with various function coatings such as ITO, anti-reflection, anti-glare, and anti-fingerprint are also available.

Example of Composition

Lamion™ Flexible Type (G-Leaf™ laminated on one side)
Flexible transparent laminate with high dimensional stability

