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PRODUCTS OR MACHINERY

At present, Nittobo is one of the few companies worldwide that has the coherent facilities from fiber manufacture, to glass cloth processing and the research of composite materials, and has a presence in Japan as the top manufacturer, ultra-thin glass fabric yarn

Nowadays, for promoting to higher speed and frequency in the area of computer, mobile phone, and telecommunication infrastructure etc., low dielectric constant and dissipation factor base materials for PWB will be required for next generation materials. Nittobo have proprietary developed low dielectric constant and dissipation fiber glass fabric using NE-glass yarn in replacement using E-glass yarn.

E-Glass 6.6 0.0012
NE-Glass 4.6 0.0007

For applying T-glass yarn which has low-thermal expansion and high modulus elongation property, excellent dimensional stability and higher stiffness will be able to materialize.

Heat expansion coefficient
($\times 10^{-6}/^{\circ}\text{C}$) Modulus of elongation (GPa)
E-Glass 5.5 72.8
T-Glass 2.8 84.3

To respond HDI and high-tech PWB trend, thinner glass fabrics are required. Nittobo's ultra thin fabric have not only thin cloth but also advantage for laser or mechanical micro-via property, dimensional stability, and smoother surface.

IPC SPEC Thickness Weight count /25mm Weave
(excerpt) (mm) (g/m²) Warp Fill
1078 0.043 48 53 53 Plain
1035 0.030 30 65 67 Plain
1037 0.025 24 69 72 Plain
1027 0.020 19 74 74 Plain
Under development 0.015 12 85 85 Plain

Company Profile of **Nitto Boseki Co., Ltd.**

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