



Novel Magnetic Materials

Magnetic Nanowires

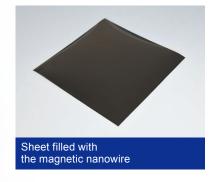
Electromagnetic Shielding Materials for Millimeter and Sub-millimeter Waves

High-performance electromagnetic shielding was achieved with the magnetic nanowires developed by UNITIKA. This technology prevents malfunction and performance degradation of the devices such as antenna and radar, which are the key components of Beyond 5G (6G) Communications and autonomous vehicles.

- Excellent electromagnetic shielding effect for millimeter and sub-millimeter waves derived from a combination of dielectric loss and magnetic loss.
- Superior magnetic properties to conventional magnetic materials due to their high aspect ratio.
- Compatible with a wide range of materials including thermoplastic and thermoset.



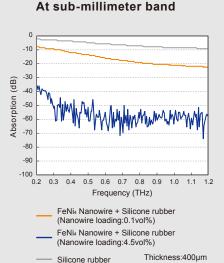


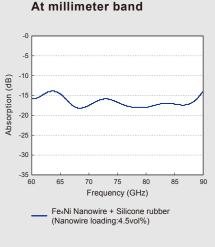


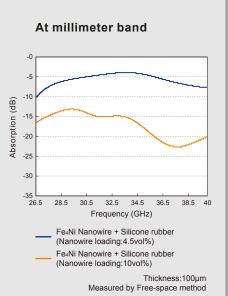
Technical data

■ Electromagnetic wave absorption properties

Measured by THz-TDS







(Notice) This product is under development. The information in this document is presented without guarantee and warranty.

Thickness:100um

Measured by Free-space method