

# ZEONANO®SG101 Dispersion/ Terahertz Wave Absorption

## Features

**Found to be effective in absorbing terahertz wave  
more than 200GHz**

- Absorption in a wide range of terahertz band more than 200GHz (No absorption peak)
- Expression of absorption with a small amount of ZEONANO®SG101

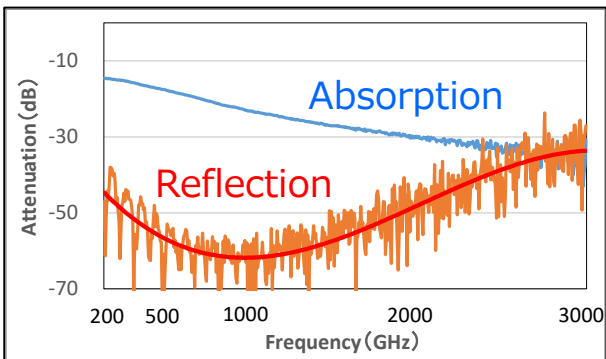


Our products

## Properties

### ■ Attenuation of THz wave

- ZEONANO®SG101 sheet (no binder)
- Non-woven fabric sheet supporting ZEONANO®SG101 (ZEONANO®SG101 content:4.7wt%)



| Sample                 | Thickness [um] | Conductivity [S/cm] | Complex dielectric constant $\epsilon''[-]$ |
|------------------------|----------------|---------------------|---------------------------------------------|
| ZEONANO®SG101 sheet    | 163            | 11                  | unmeasurable                                |
| Non-woven fabric sheet | 152            | 0.4                 | 2.5                                         |

THz-TDS/Transmittance measuring method

**Expression of THz wave absorption performance  
with the control of electric conductivity**

## Applications

- Noise countermeasure for beyond 5G/6G
- Electromagnetic absorption box for THz wave related experiment

**ZEON**