

— The World's Only Filler Material! — Fibrous Aluminum Nitride Single Crystals

U-MAP Co., Ltd.
Ultimate Material and Processing

Thermalnite®

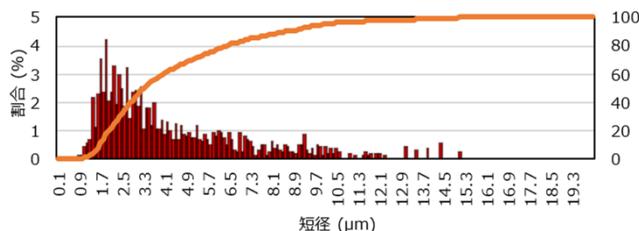
Enhancing the Limits of Thermal Conductivity and Strength with Minimal Resin Addition!

Short Fiber Type

◆ Particle Size Distribution

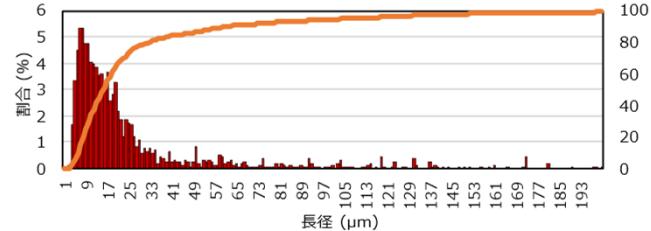
Fiber Diameter

D10	1.5
D50	3.2
D90	8.4



Fiber Length

D10	4.7
D50	14.0
D90	59.7

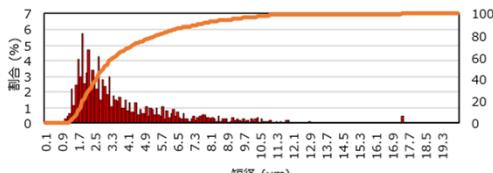


NEW Powder Type

◆ Particle Size Distribution

Fiber Diameter

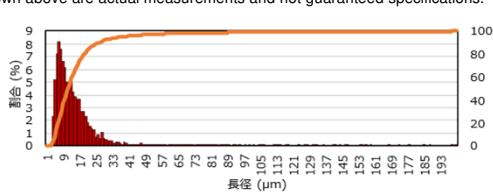
D10	1.5
D50	2.7
D90	7.3



※Measured values shown above are actual measurements and not guaranteed specifications.

Fiber Length

D10	4.0
D50	10.0
D90	25.3



► Benefits (Powder Type)

- Particle size distribution optimized for thin layer applications
- Reduced resin viscosity for improved processability

NEW High Dispersion Type

◆ Surface Treated Product



With Surface Treatment Without Surface Treatment

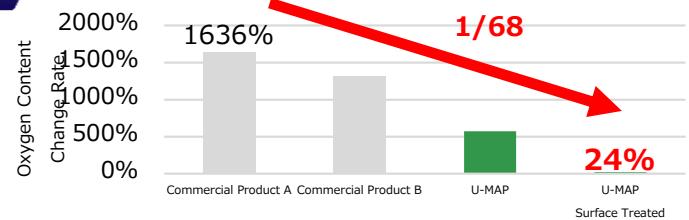
► Benefits

- Suppresses viscosity increase even at high loadings
- Efficiently enhances thermal conductivity

Water-Resistant Type

► Benefits

- Significantly improves water resistance
- Reduces oxygen content to 1/68 compared to competitors



※Oxygen content change after 85°C/85%RH exposure for 16 hours

Looking for High Thermal Conductivity Materials? Contact Us Today! ▶

