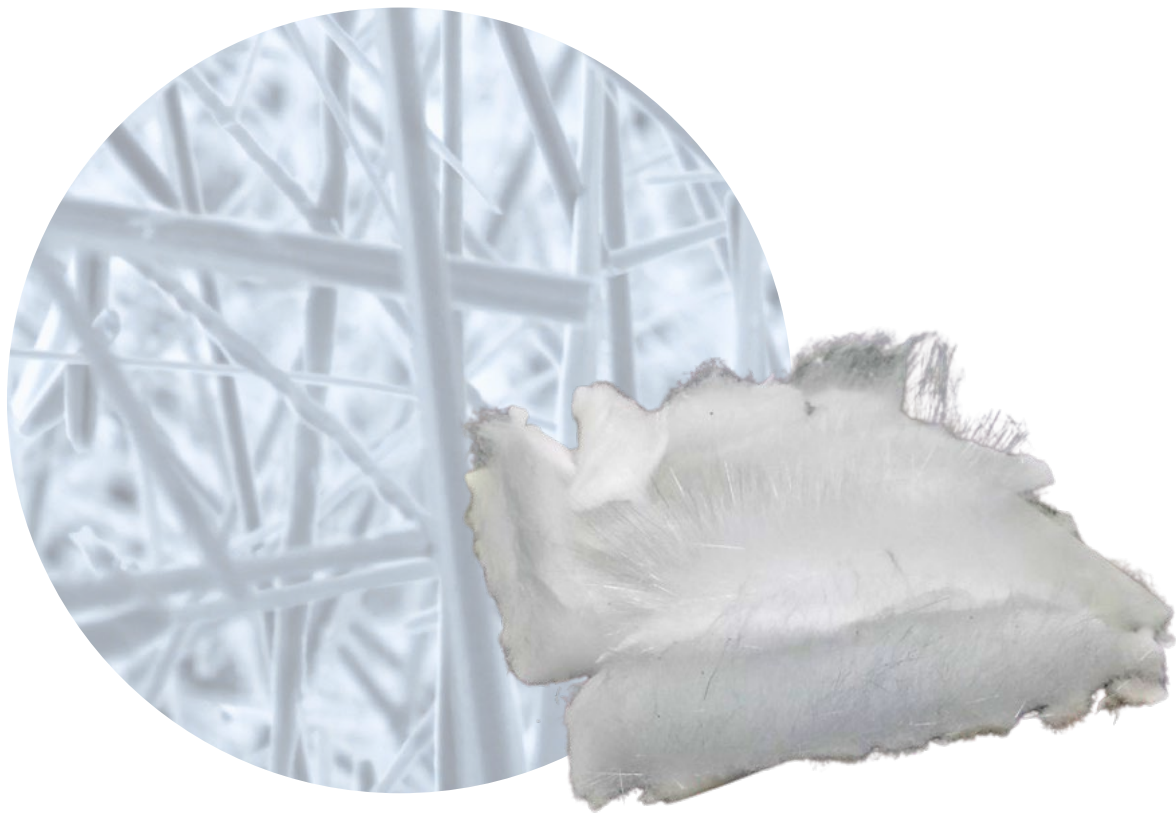


Thermalnite®

樹脂部品に少量添加！「熱伝導率」「機械的強度」を向上！

◆特性



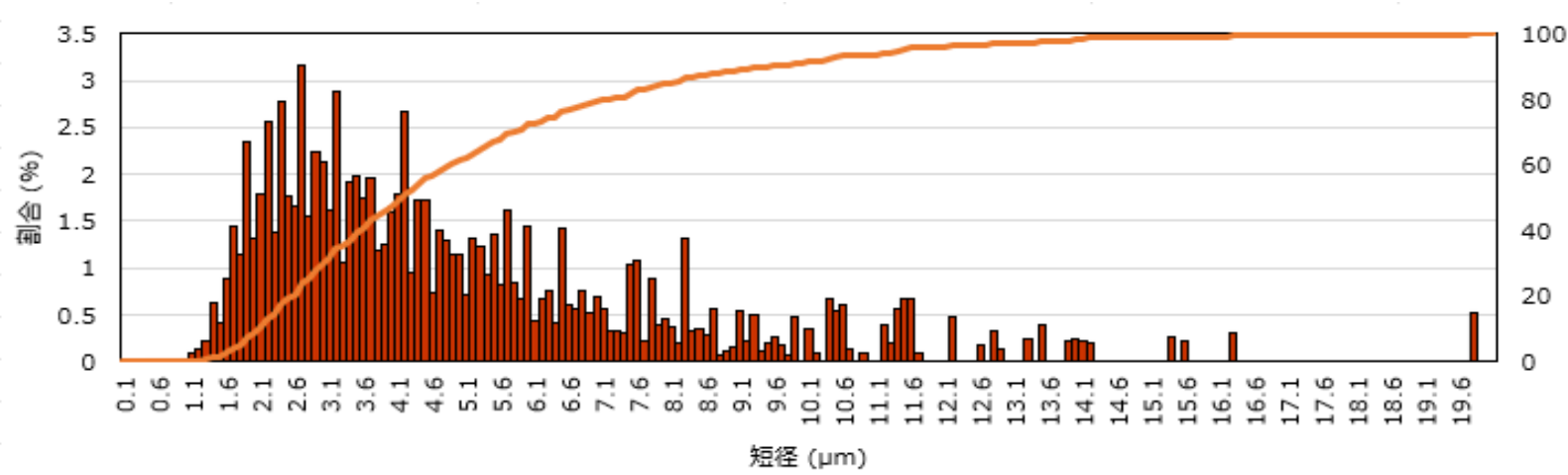
項目	特性値
密度	3.26 g/cm ³
繊維径	D50: 4.1 μm、D90: 9.4 μm
繊維長	D50: 19.0 μm、D90: 77.7 μm

※表中の測定値は実測値であり製品規格値ではありません。

◆粒度分布

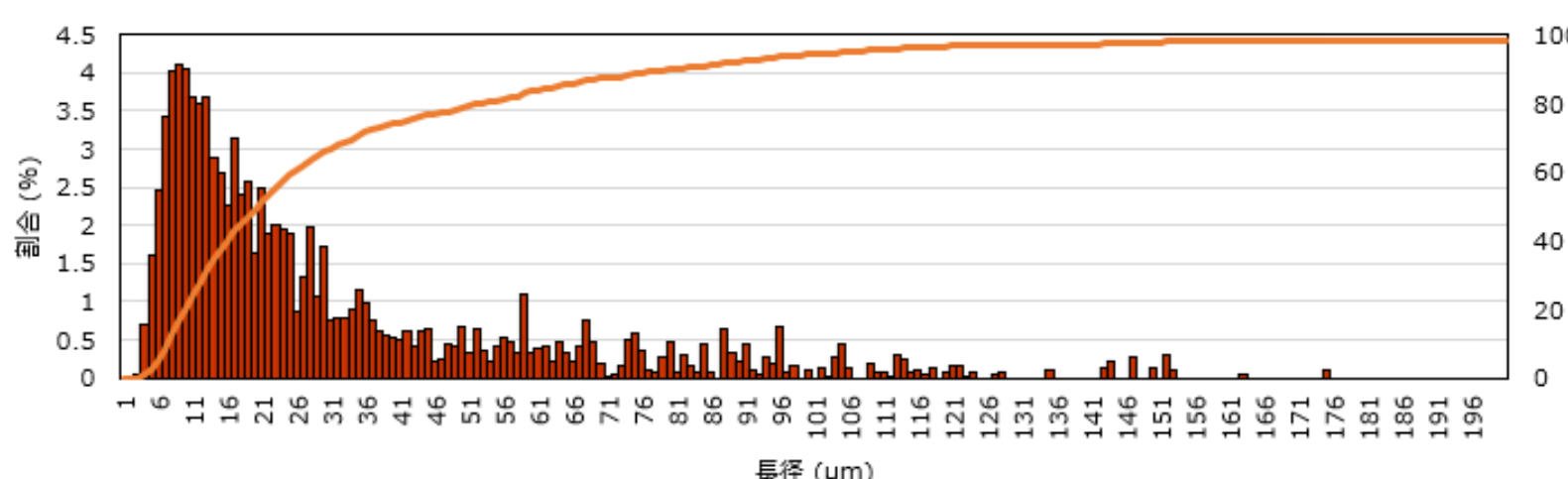
短軸

最頻値	3.3
D10	1.9
D50	4.1
D90	9.4



長軸

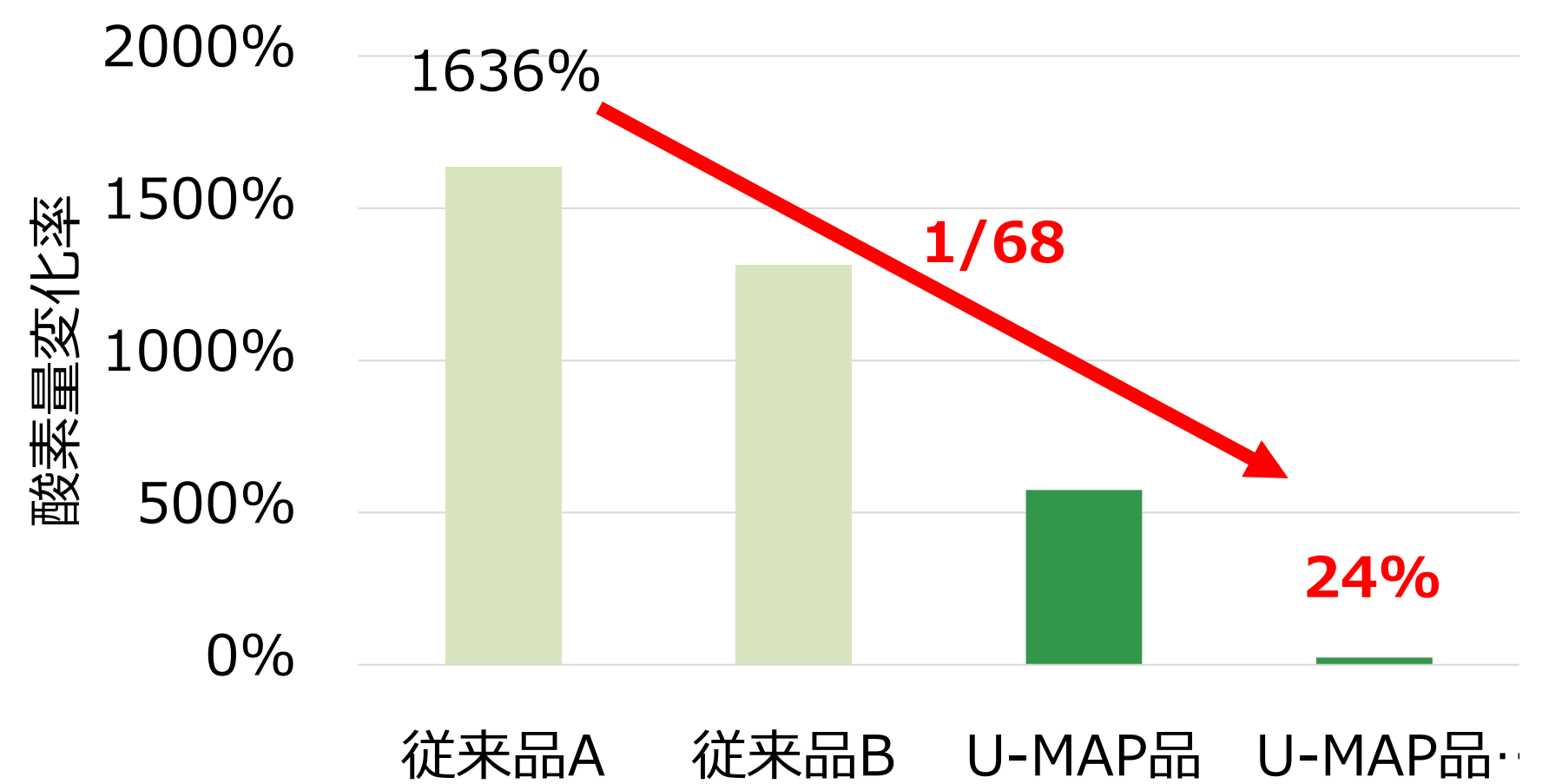
最頻値	9.0
D10	5.7
D50	19.0
D90	77.7



※表中の測定値は実測値であり製品規格値ではありません。

◆耐水性向上仕様(開発中)

従来品の1/68に酸素量低減



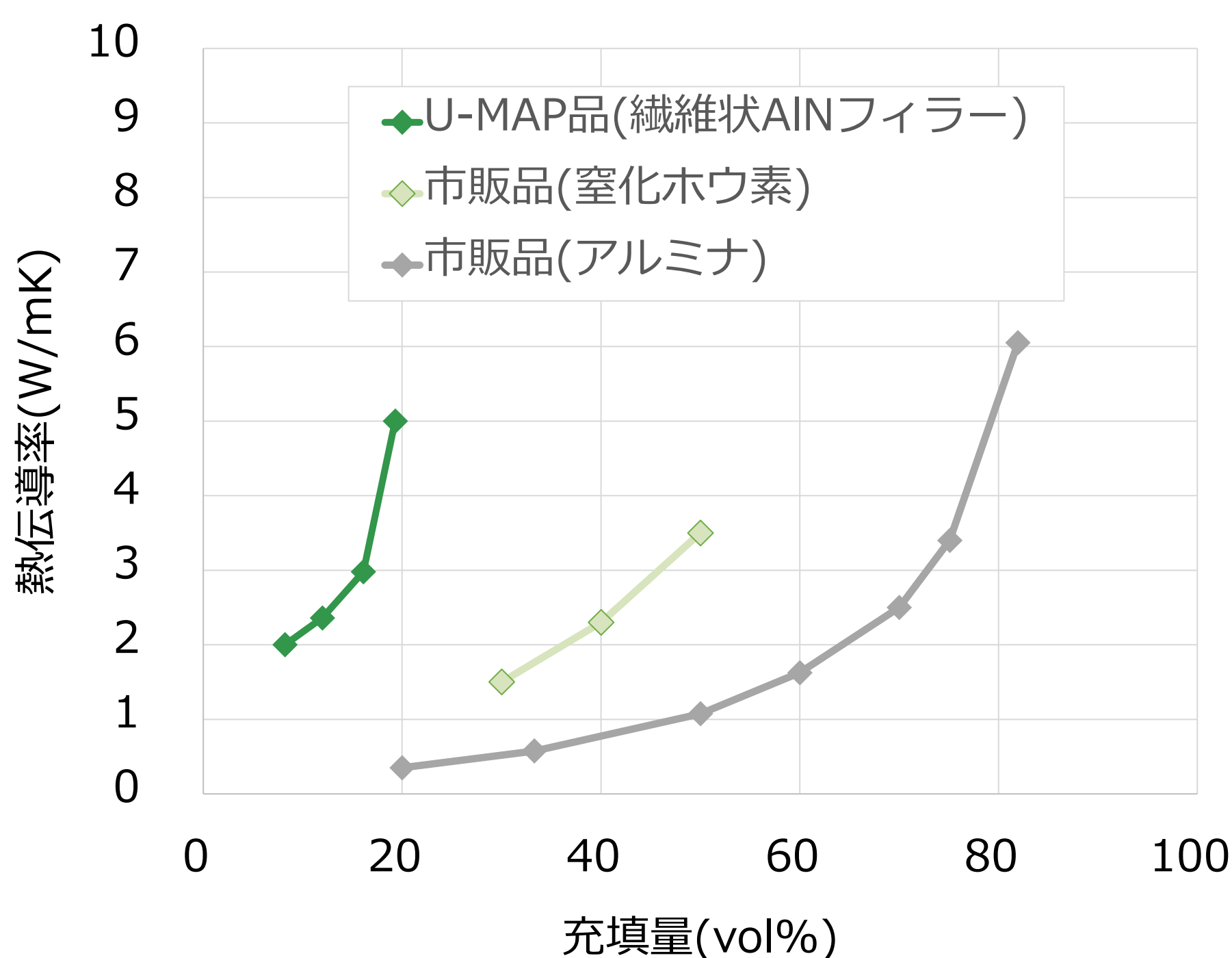
85°C/85%RH、16h曝露後の酸素量変化量を測定

樹脂に添加

◆低い添加量で高い熱伝導率

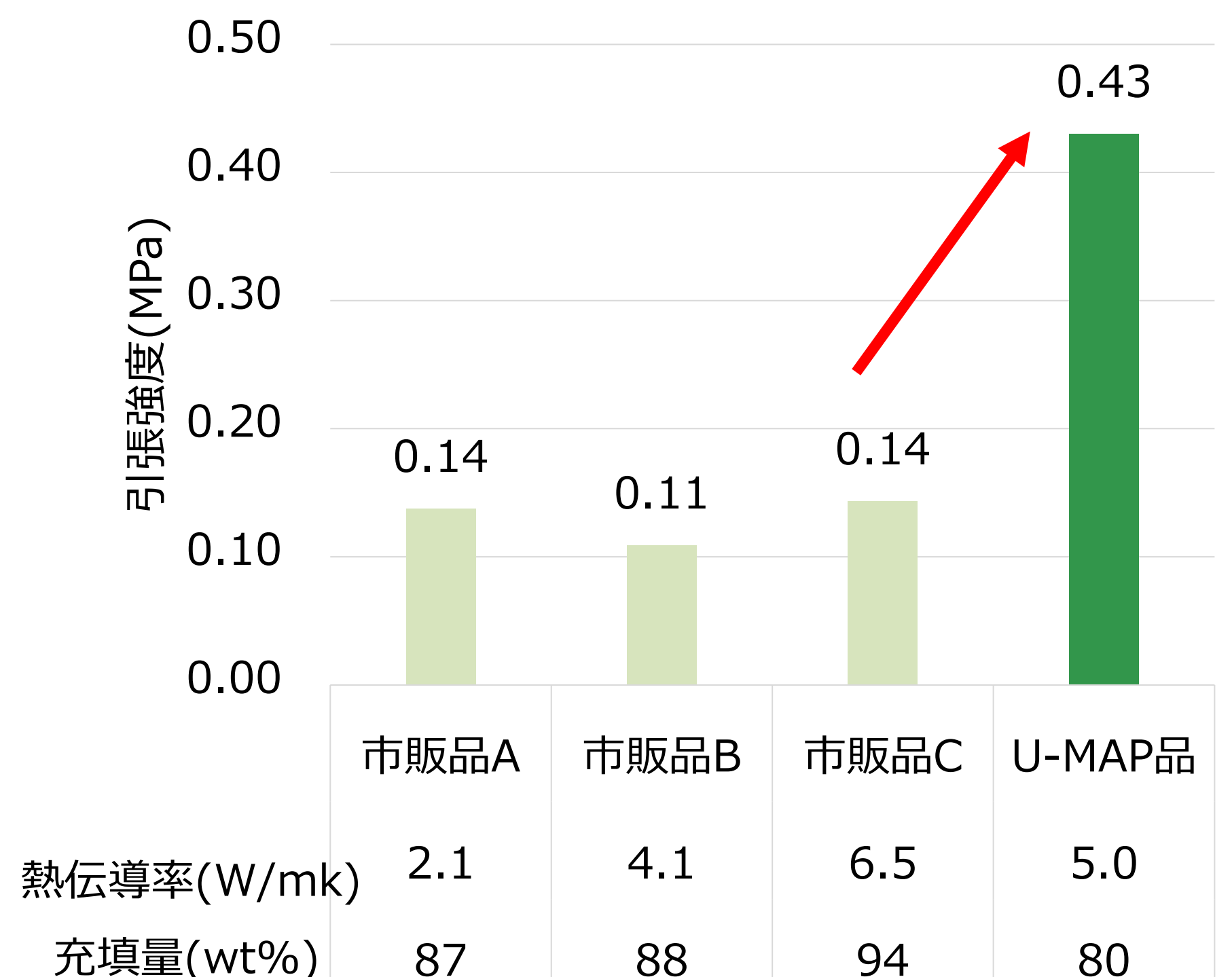
少ない充填量で高い熱伝導率を発現

熱伝導率に及ぼすフィラー充填量の影響



◆高い機械的強度

市販品と比較して最大4倍向上



U-MAP's ONE and ONLY Fibrous AlN Filler!

Thermalnite®

Only by adding a small amount to resin parts improves
“Thermal conductivity” and **“Mechanical strength”**

◆ Feature



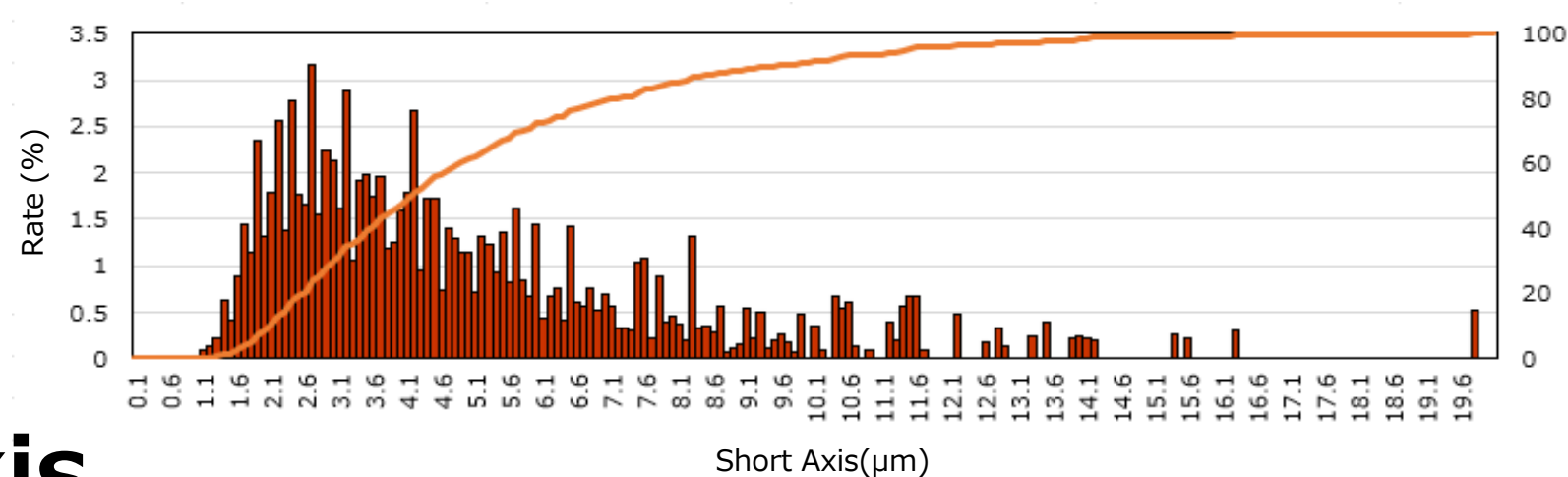
Items	Value
Density	3.26 g/cm ³
Diameter	D50: 4.1 μm、D90: 9.4 μm
Length	D50: 19.0 μm、D90: 77.7 μm

*Measured values in the table are actual values, not product standard values.

◆ Particle size distribution data

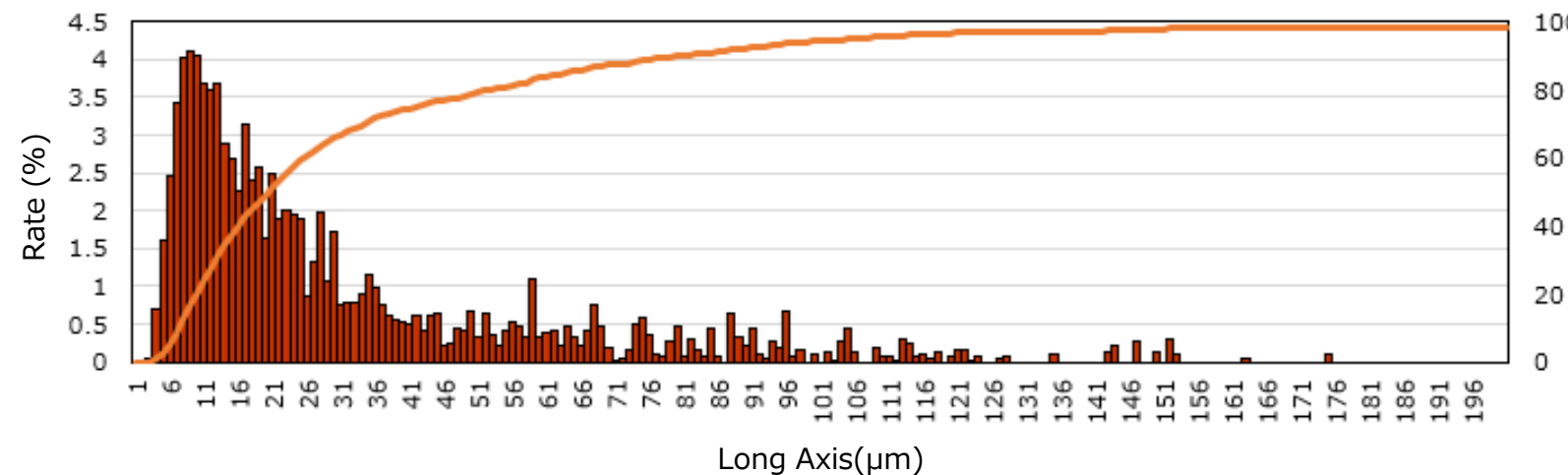
Short axis

Mode	3.3
D10	1.9
D50	4.1
D90	9.4



Long axis

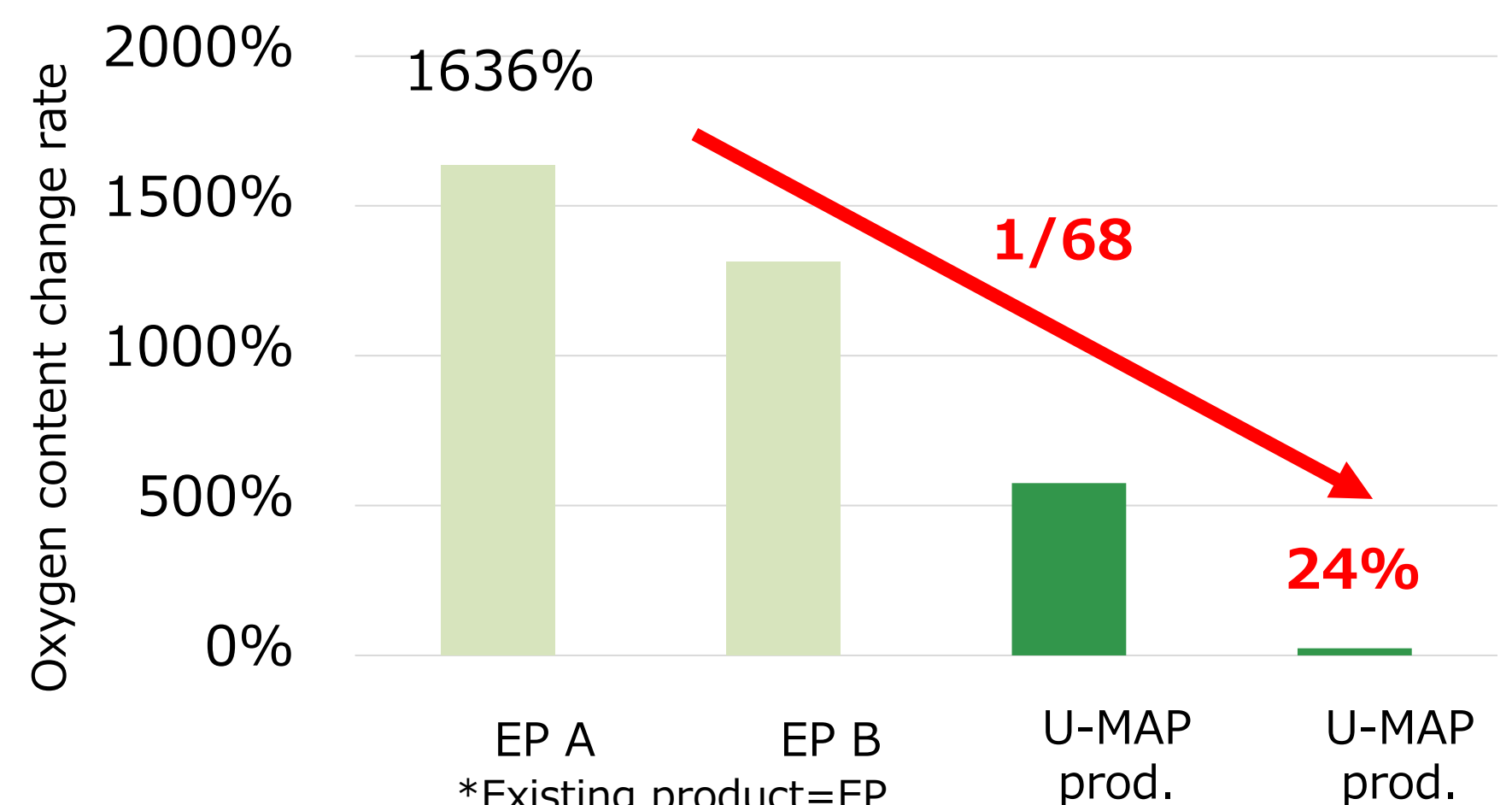
Mode	9.0
D10	5.7
D50	19.0
D90	77.7



*The measured values in the table are actual values and are not product standard values.

◆ Specifications for improved water resistance (under development)

Oxygen content are reduced to **1/68** of existing product

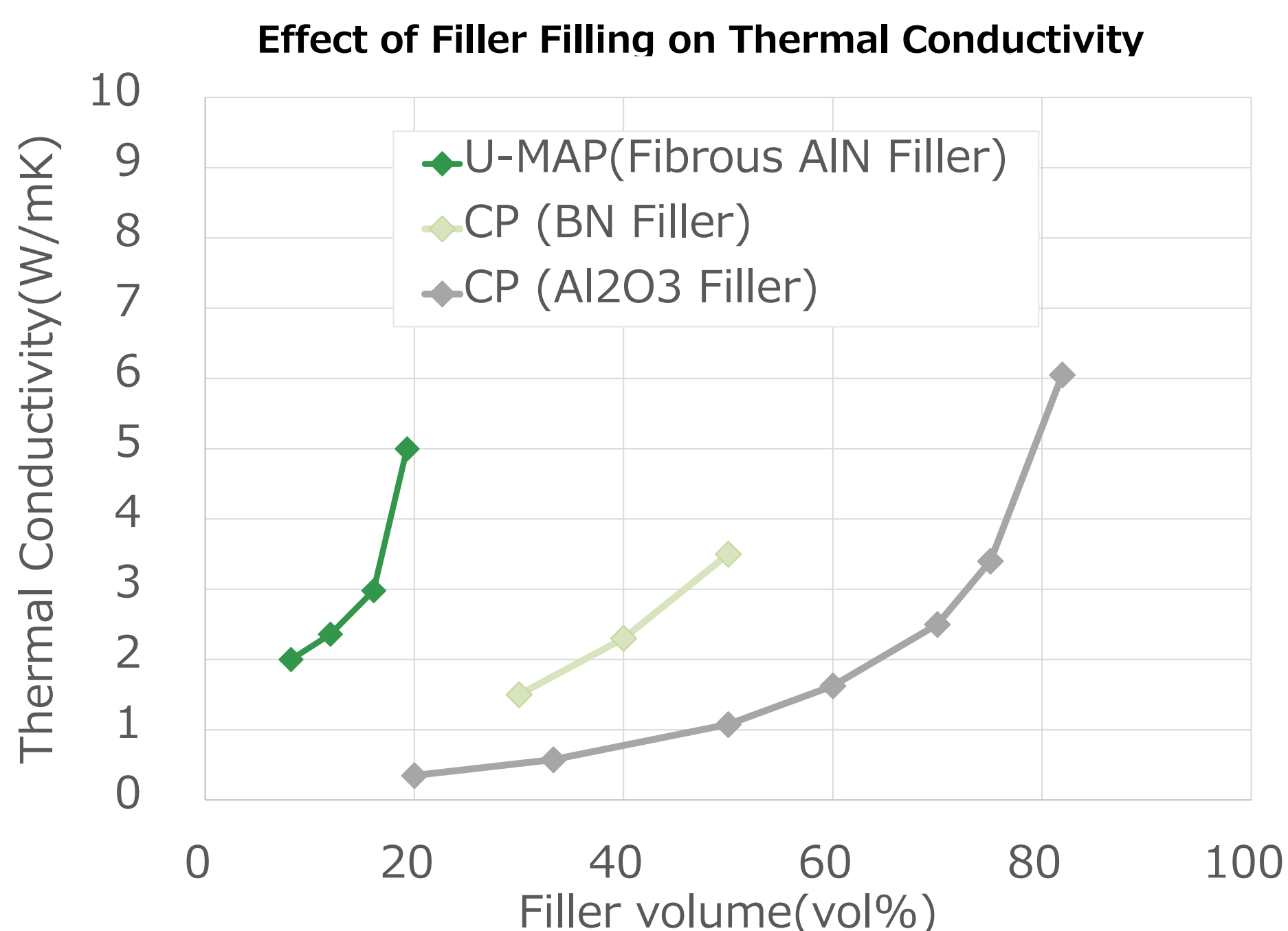


*Measured oxygen content change after 16h exposure at 85°C/85%RH

Add to resin

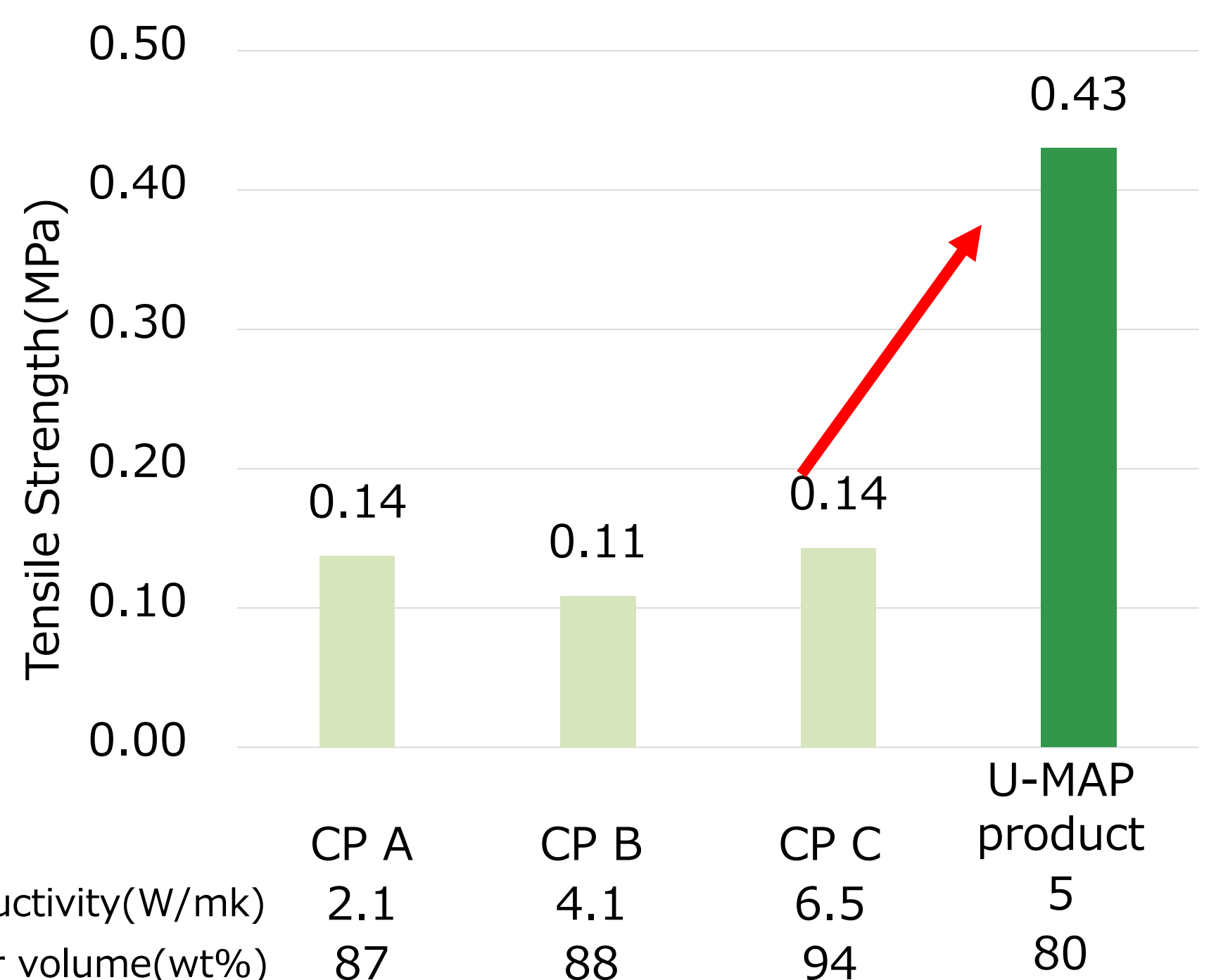
◆ High thermal conductivity with low additives

Achieving **high thermal conductivity** with **minimal fill volume**



◆ High mechanical strength

Up to **4x improvement** over commercial products



*Commercial product=CP