

# 熱伝導クレイ

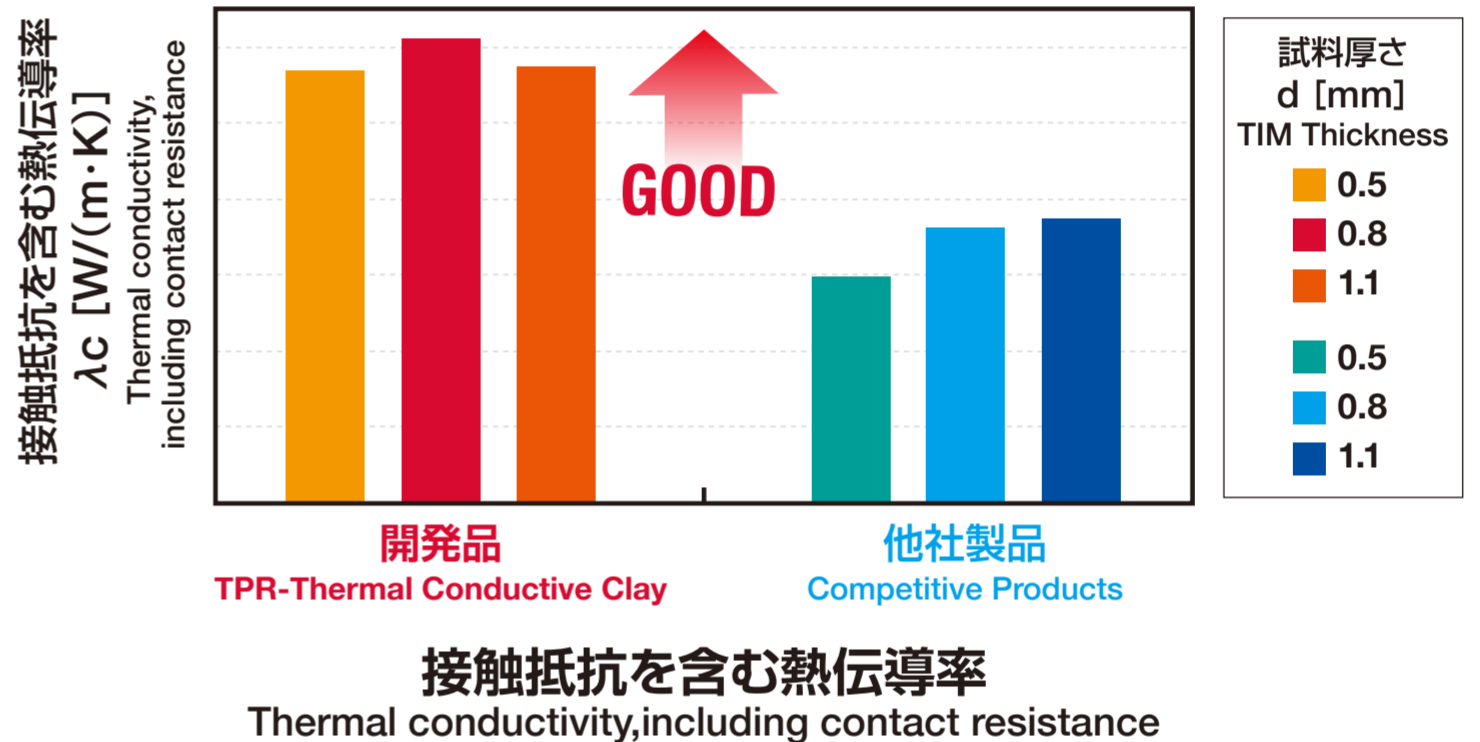
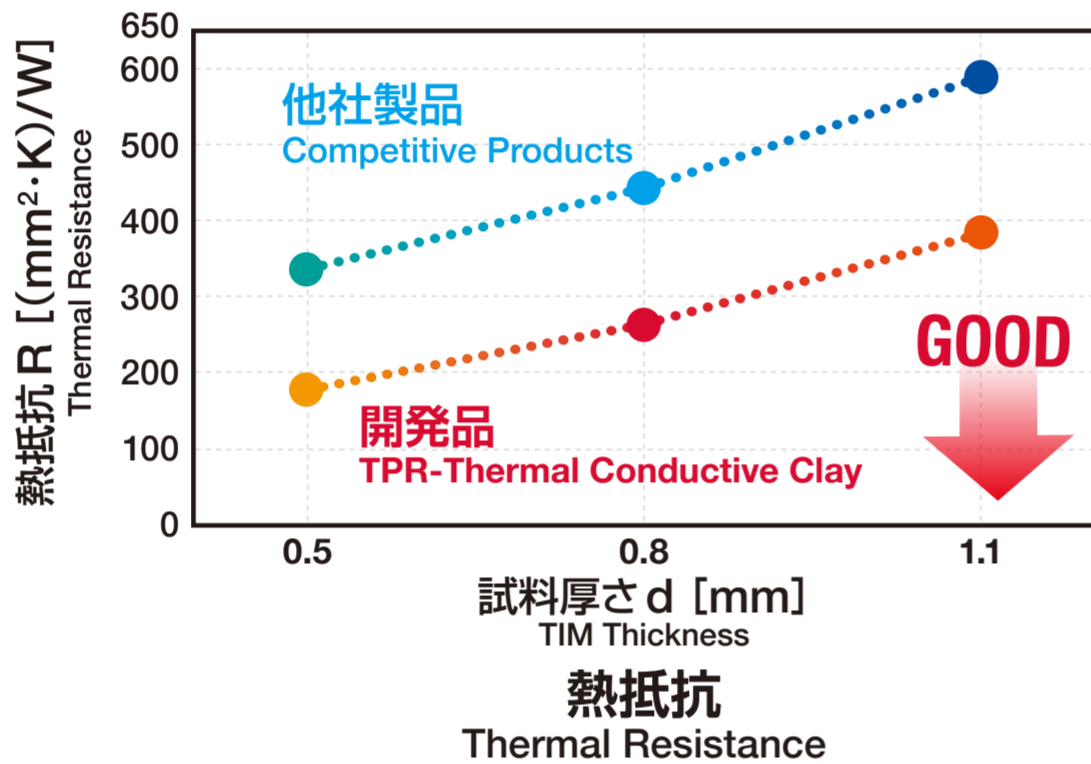
## Thermal conductive clay

### 凹凸形状への追従性が高く高熱伝導な粘土状TIM

Clay-like TIM with high tracking and high thermal conductivity

#### 特徴 | Characteristics

- 熱伝導性の高いCNTをフィラーに使用し、高い熱伝導を実現  
CNTs with high thermal conductivity are used as fillers to achieve high thermal conductivity
- 自己接着とリワーク性を両立  
Both self-adhesive and reworkable
- 柔軟で凹凸への追従性があり、接触熱抵抗が低い  
Flexible and can follow fine irregularities. Has low contact thermal resistance

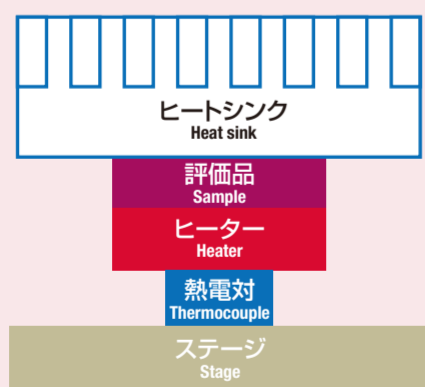


#### 実験データ | Experimental data

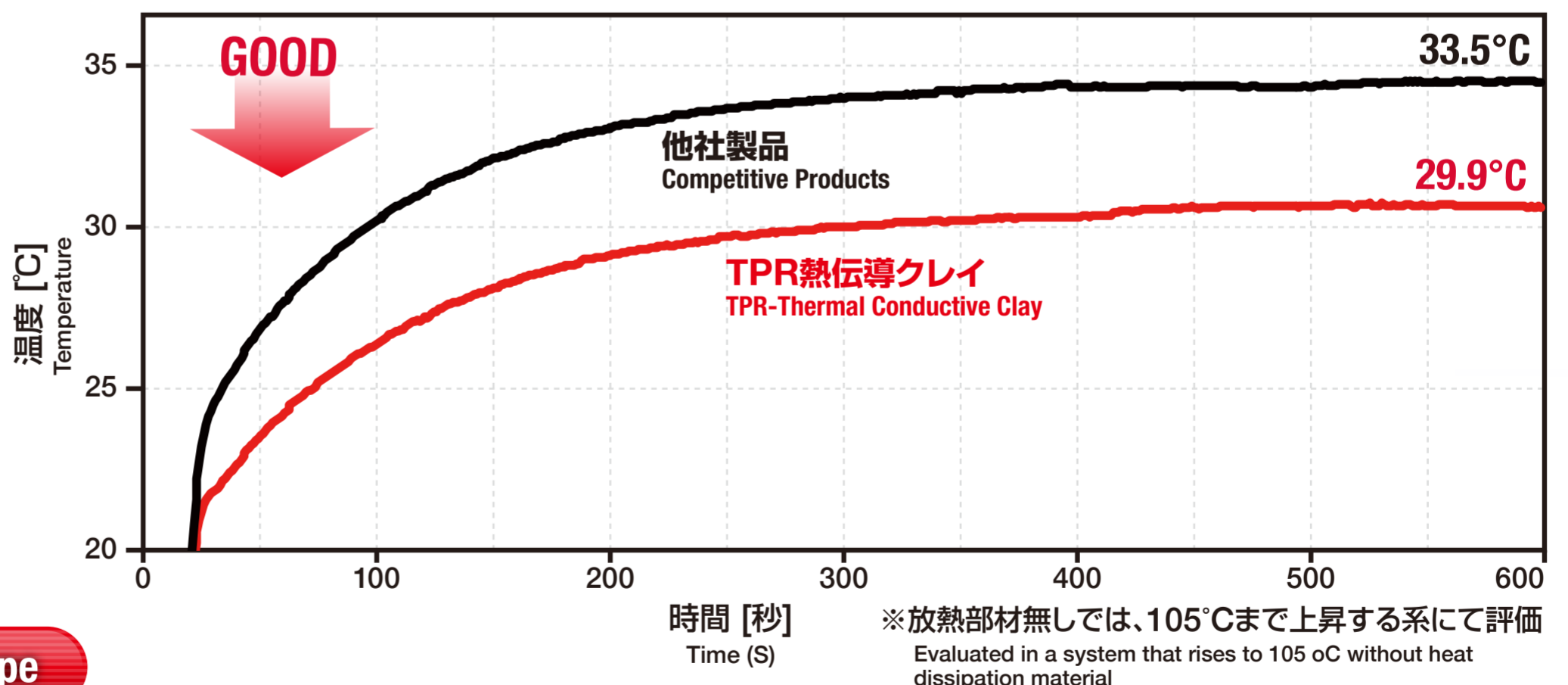
- セラミック粒状フィラーに微量のCNTを添加 → 熱輸送性能が向上 → 低コストでの性能向上を実現  
Trace amount of CNT added to ceramic granular filler improves heat transport performance → Improved performance at a lower cost

##### 評価方法 Evaluation method

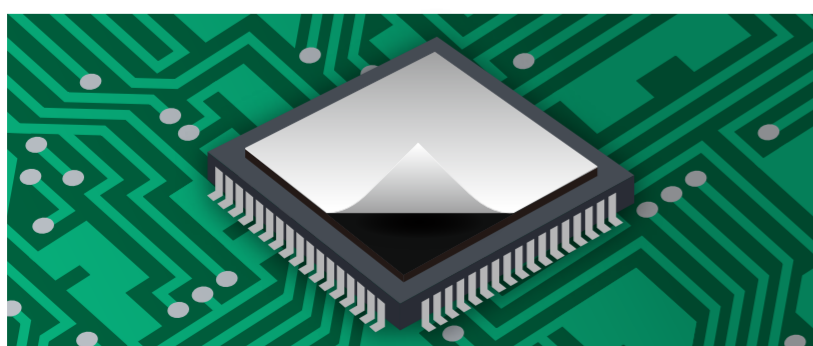
- ヒータとヒートシンク間に熱伝導クレイを設置  
Heat transfer clay installed between the heater and the heat sink
- ヒータの昇温抑制効果を比較  
Comparison of the effect of heaters on suppressing temperature rise



##### 評価結果 Result



#### シートタイプ | Seat Type



- 母材変更と熱伝導フィラーの配合割合変更によりゴムシート形状での作製も可能  
It is also possible to fabricate in the form of a rubber sheet by changing the matrix and changing the blending ratio of the heat conductive filler.
- クレイ同様CNT微量添加で性能向上を確認  
As with clay, performance improvement was confirmed by adding a small amount of CNT.