

# Analytical Function for temp-dependent thermal conductivity

Analytic

Plot Create Plot

Label: Analytic 2

Function name: an2

Definition

Expression:  $651/Ty$

Arguments: Ty

Derivatives: Automatic

Periodic Extension

Units

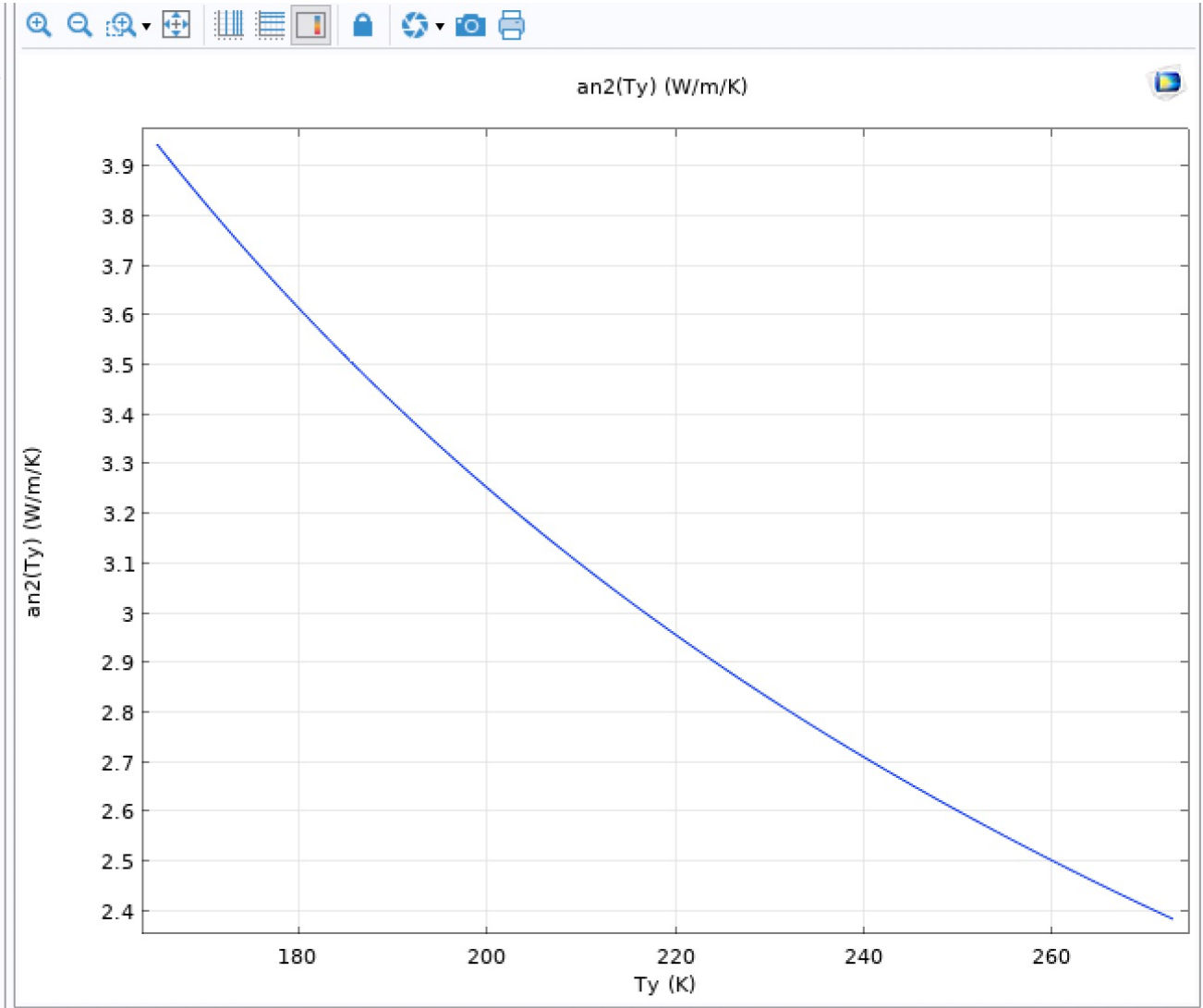
Function: W/m/K

Argument	Unit
Ty	K

Advanced

Plot Parameters

Argument	Lower limit	Upper limit	Unit
Ty	165	273	K



How I call the analytical function in the material properties node

<input checked="" type="checkbox"/>	Thermal conductivity	k_iso ; kii	an2(T3)	W/(m·K)	Basic
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Temperature as a function of time/spatial dimension changes, but the thermal conductivity remains a constant.

