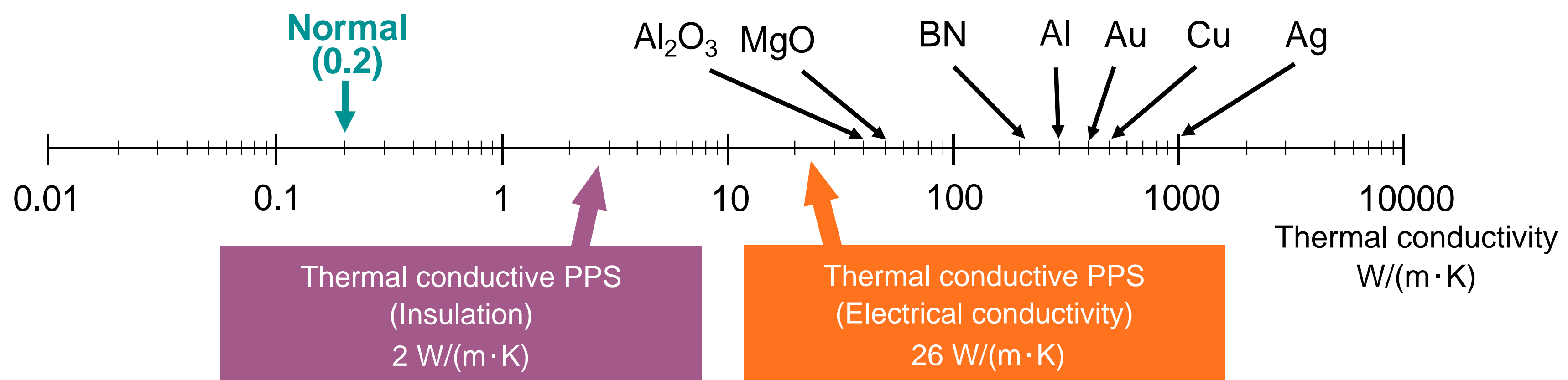
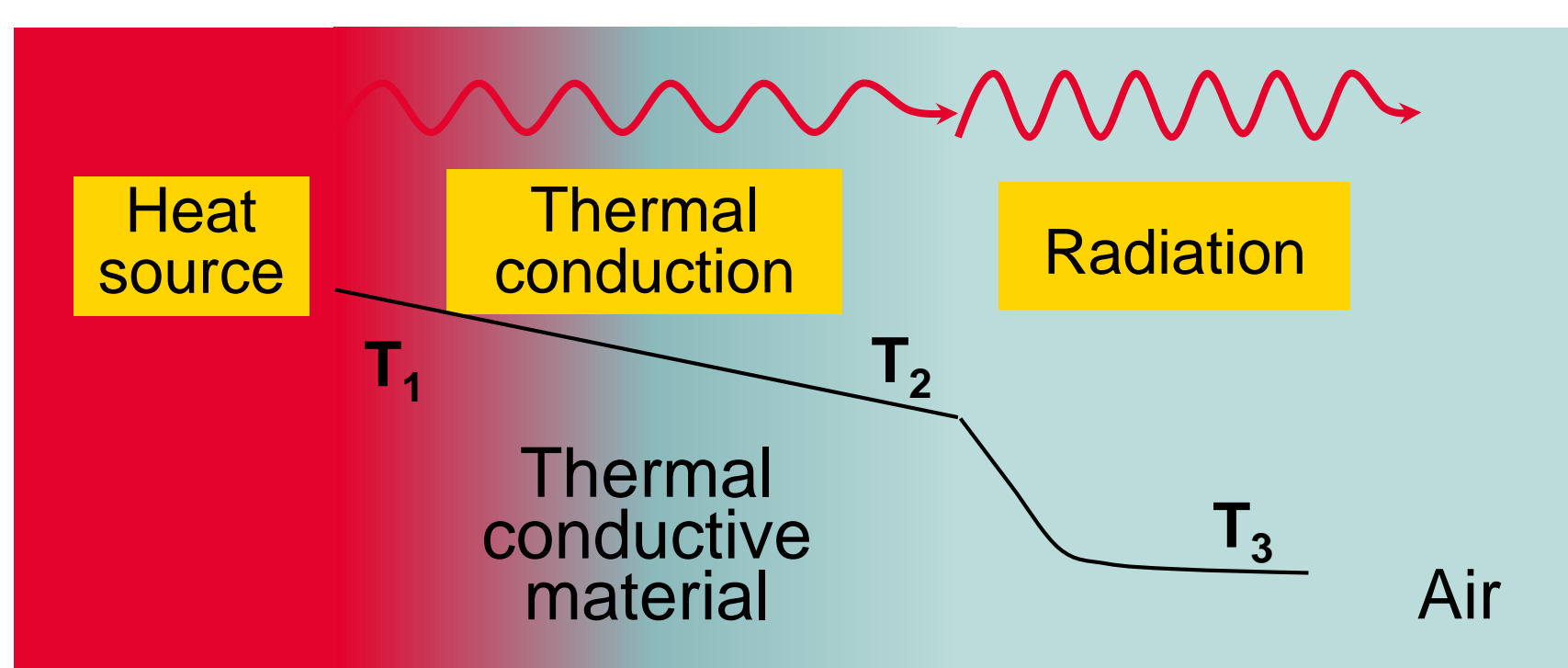


Thermal conductive PPS



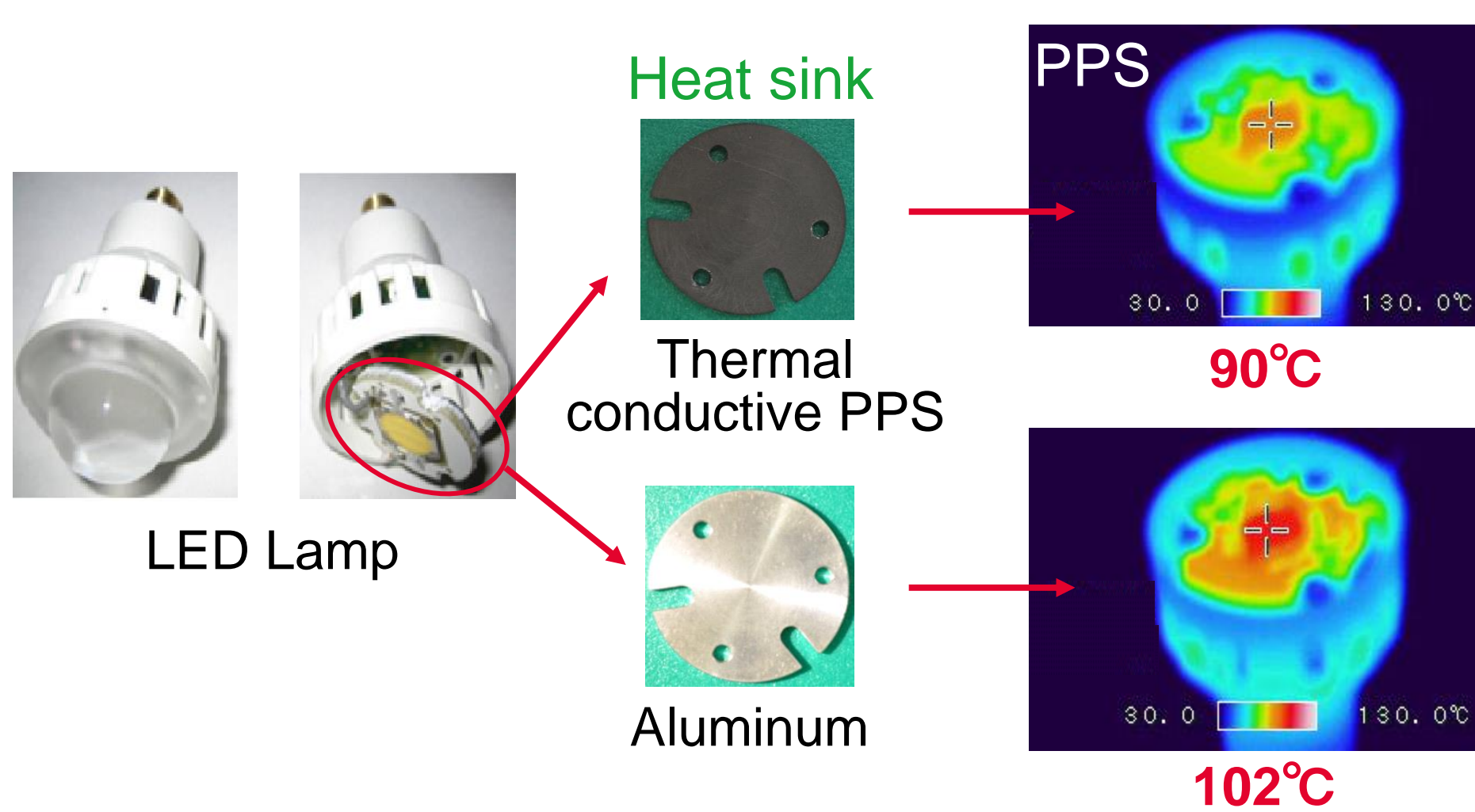
Heat Radiation Mechanism



Heat radiation correlates with thermal conduction of thermal conductive material and radiation in air.

Thermal conductive material	Thermal conductivity (W/(m·K))	Emissivity (-)
Aluminum	230	0.1
Thermal conductive PPS	20	>0.8
Normal PPS	0.3	>0.8

Heat Radiation Test



Applications

- Inverter case
- Motor insulator
- Electronic Control Unit case
- Connector

Data sheet

Test	Unit	Method	Tosoh Susteel® TCX-250 (12)	Tosoh Susteel® TCX-150 (12)	Tosoh Susteel® TC-70(12)	Normal G-10(12)
			Electrical conductivity	Electrical conductivity	Insulation	Insulation
Thermal conductivity (in-plane)	W/(m·K)	Laser Flash	26	16	2	0.2
Thermal conductivity (through plane)	W/(m·K)	Laser Flash	5	3.5	0.9	-
Electrical conductivity	Ohm·cm	Tosoh	10 ⁰	10 ¹	10 ¹⁵	10 ¹⁶
Molding flow length (1mm)	mm	Tosoh	53	135	158	130
Mold shrinkage (MD/TD)	%	Tosoh	0.03/0.5	0.05/0.6	0.3/0.5	0.3/0.6

All properties shown in this brochure are the typical values of the material. It is not guaranteed value. All properties can not guarantee qualities of your product.