



## TPC - Thermally Conductive Phase-Change Sheet

### Thermal Properties

	TPC20	TPC30	Test Method
Thermal Conductivity, W/m·K	2 ± 0.2	3 ± 0.25	ASTM D5470
Thermal Resistance, m <sup>2</sup> K/W	0.09	0.001847	

### Physical Properties

	Gray	Gray	Visual
Construction & Composition	Polymer	Polymer	—
Thickness, in (mm)	0.010, 0.020 (0.25, 0.50)	0.010, 0.020 (0.25, 0.50)	ASTM D374
Density at 23 °C, lb <sub>m</sub> /in <sup>3</sup> (g/cm <sup>3</sup> ) @ 23°C	0.079 ± 0.018 (2.2 ± 0.5)	0.145 ± 0.018 (2.4 ± 0.5)	ASTM D792
Applicable temperature range, °F (°C)	-40 - 257 (-40 - 125)	-40 - 257 (-40 - 125)	—
Cold and hot shock resistance cycle, Times	2000 min	2000 min	GB2423.22
Phase Change Temperature, °F (°C)	122 ± 9 (50 ± 5)	122 ± 9 (50 ± 5)	ASTM D3418

### Regulatory Properties

Shelf Life(23°C,55%RH), months	12	12	—
--------------------------------	----	----	---