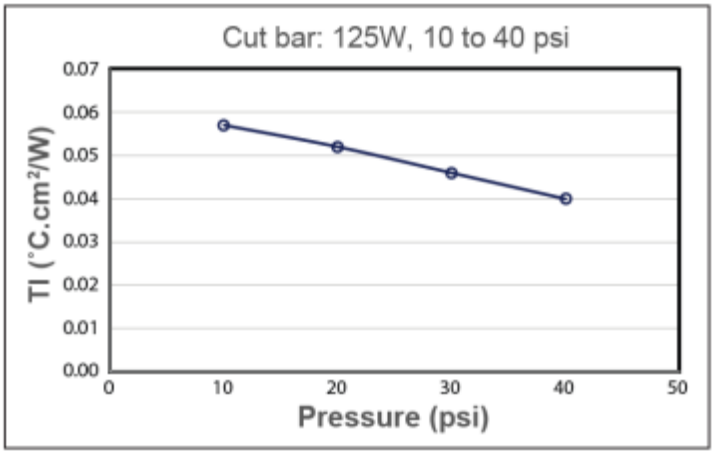
PTM7950-SPS

High Thermal Conductivity
Phase Change Material

Honeywell' s PTM7950-SPS is designed to minimize thermal resistance at interfaces, maintain excellent performance through reliability testing, and provide scalable application at a competitive cost. Based on a novel polymer system, this material exhibits excellent interface wettability during typical operating temperature ranges, resulting in extremely low surface contact resistance.

A proprietary material provides superior reliability (pass 150oC baking 1000hrs, Temperature Cycling-B 1000cycles) and maintains low thermal impedance (<0.04 cm2.oC/W with no shim), making the PTM7950-SPS desirable for high performance integrated circuit devices.

PTM7950-SPS Thermal Impedance (TI) vs. Pressure



Honeywell TIMs Serve Multiple Applicationsa

Automotive & Power

IT/ Enterprise

Telecomm

Consumer Electronics

High-Brightness LED

PTM7950-SPS Technical Information

Physical Properties	Unit	Test Method	PTM7950-SPS
Thermal Conductivity	W/m.K	ASTM D5470	8.5
Thermal Impedance @ no shim	$Cm^2.{}^\circ C/W$	AStM D5470 Modified	0.04
Specific Gravity	g/cm^3	ASTM D792	2.5
Viscosity	Pa.s @10rpm, 25˚C	Rheometer HON	100
Volume Resistivity	Ohm.cm	ASTM D257-700	$2.1x10^{14}$

*Typical property data values should not be used as specifications

STORAGE CONDITION

19-24˚C, <65%RH

THERMAL IMPEDANCE POST RELIABILITY (ASTM E1461)

End of Line	0.04˚C.cm2/W
Bake 150˚C, 1000hrs	0.04˚C.cm2/W
Double 85, 1000hrs	0.04˚C.cm2/W
Temperature Cycling B (-55˚C to +125˚C, 1000 cycles)	0.045˚C.cm2/W

More Honeywell TIMs

PTM6000HV is part of Honeywell' s TIM Solutions family of phase change materials. Whatever the thermal challenge, we offer a TIM product that provides just the right character-istics for your application. Find out more about:

PTM7000 Series
PTM5000 Series
HT Series
PTM6000 Series
PCM45F Series
LTM Series

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Honeywell Electronic Materials

USA: 1-509-252-2102

Mainland China: 400-840-2233

Germany: 49-5137-999-9199

Japan: 81-3-6730-7092

Korea: 82-2-3483-5076

Singapore: 65-6580-3593

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