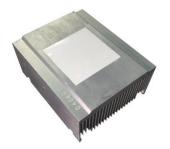


Tpcm[™] 200SP Phase Change Material







FOR LOW THERMAL RESISTANCE AND LOW OUTGASSING

TpcmTM 200SP is a silicone free, thermal phase change material (PCM) designed to meet the thermal reliability and outgassing requirements of LED lighting applications, while offering a low total cost of ownership. It is specifically designed for use in various optical applications such as automotive headlamps, LED lighting, cameras, lasers and sensors. TpcmTM 200SP is also well suited for the broader market where the thermal requirements are moderately demanding.

Tpcm 200SP is a screen printable phase change material which quickly dries to the touch so that it can be pre-applied to components for future assembly.

FEATURES AND BENEFITS

MARKETS / APPLICATIONS

- Silicone-free
- Low thermal resistance
- Ease of use for high volume manufacturing
- High thixotropic index
- Dry to the touch for pre-apply applications
- High thermal reliability, minimal pump out
- Re-flow compatible
- Cost Effective

LED lighting

- Automotive headlamps
- Microprocessors
- Chipsets
- Graphic Processing Chips
- Custom ASICs
- Optical applications (e.g, lasers)

	TYPICAL PROPERTIES	TEST METHOD
Color	White	Visual
Viscosity (Pa-s)	20	Rheometer
Specific Gravity – w/o solvent	3.2	Helium Pycnometer
Thermal Conductivity – w/o solvent (W/mK)	1.5	Hot Disk Thermal Constants Analyzer
Thermal Resistance (°C-in ² /W @ 70°C)	0.07 (@10 psi) 0.049 (@20 psi) 0.027 (@50 psi)	ASTM D5470
Softening Temperature (°C)	45-60	
Max Continuous Use Temp (°C)	125	
Operating Temperature Range (°C)	-40 to 125	
UL Rating	94V0	
Thixotropic Index	>3	Rheometer

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THR-DS-Tpcm200SP_113015

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