

## Printable Thermal PCM / XK-C35D

printable phase change material  
 Ease of application  
 Superior handling and reworkability  
 Applies like grease without the pump-out  
 Excellent thermal reliability after thermal cycling and HAST



	XK-C35D ( Dispensed )	Test Method
Color	White	Visual
Solid content	90% (one-part)	
Viscosity 1rpm	150000 CPS	
Viscosity 10rpm	80000 CPS	-
Thermal Filler	High thermal-conductivity Al <sub>2</sub> O <sub>3</sub>	
Density	2.0 g/cm <sup>3</sup>	ASTM D792

### Solid (after cure)

Thermal Conductivity	3.4 ,W/mK <sub>1</sub>	ASTM D5470
Density	2.50, g/cm <sup>3</sup>	ASTM D792
Thermal Impedance@1mils BLT	0.017°Cin <sup>2</sup> /W	ASTM D5470
Thermal Impedance@2mils BLT	0.035°Cin <sup>2</sup> /W	ASTM D5470
Thermal Impedance@3mils BLT	0.057°Cin <sup>2</sup> /W	ASTM D5470
Volume Resistivity	10 <sup>7</sup> Ohm-cm	ASTM D257
Working Temp	-30 to 125°C	
Operating Temp	20 to 30°C	
Phase change Temp.	45°C	

### Reliability

Thermal Impedance	Initial	250 hr	500 hr	1000 hr
80°C Aging	0.017	0.018	0.018	0.019
125°C Aging	0.017	0.019	0.020	0.021
85°C/85% RH	0.017	0.021	0.022	0.024