

G3000 is a two-component epoxy with high-thermal conductivity and adhesive strength. G3000 meets the requirement of thermal-cycling condition for long term operation. G3000 offers a good adhesive strength, in both metallic as well in plastic materials. G3000 is widely used in LED and semiconductors industries for assembly and many other applications.

Properties	G3000	Test Method
Thermal Conductivity	30W/mK	JESD51-14 After cured
<i>Component A / B</i>		
Appearance & Color	Brown paste / White paste	Visual Inspection
Viscosity@ 25°C	260000cps / 280000cps	Brookfield DV-3
Density@ 25°C	2.3g/ml / 1.8g/ml	ISO 1183
Coefficient of Thermal expansion		
Below Tg	$40 \times 10^{-6} \text{ K}^{-1}$	ISO 11359-2
Above Tg	$133 \times 10^{-6} \text{ K}^{-1}$	
Glass transition temperature	101°C.	ISO 11359-2
Lap Shear strength		
Steel (Grit blasted)	8.6 Mpa	ISO 4587
Hardness	78	ISO 868, Shore D
Working Temperature	-40°C. to 150°C. 250°C.	Long term Short term (15 mins)
Volume Resistivity	>1x10	IEC 60093
Breakthrough Voltage	4000V/mm	
Insulation	500V/mm	
Operating Instructions		
Cure Condition	72 hrs @ 25°C. 45 mins @ 80°C. 10 mins @ 150°C.	
Working Time	3 hrs @ 25°C.	
Life Time and Storage temperature		
Seal avoid light @ 25°C.	1 month	
Seal avoid light @ 10°C.	3 months	
Seal avoid light @ -10°C.	12 months	
Standard Packaging		
Tube	50ml/100g	

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