

TGP 110A Reactive Thermal Grease Product Datasheet

Enhance Reliability
High thermal conductivity
Low Cost Ownership

Description

TGP 110A thermal conductive adhesive is a reactive thermal grease, has a very thin BLT and can eliminate micro-bubbles at the rough interface when applied. In the service time, it can be cured to form thermal gel or thermal pad with performance of thermal phase change. TGP 110A has combined the advantages of thermal grease, thermal gel, thermal pad and thermal phase materials with elimination of disadvantages of these thermal materials. TGP 110A has low cost ownership, higher thermal conductivity and excellent rework ability. It has overcome “pump out” of thermal grease, and high cost of thermal gel, thermal pad and phase change materials. It can be used as interface materials for LED, Laptop, Desktop and other high power devices.

Typical Physical Properties

Product Name	TGP 110A thermal conductive adhesive
PROPERTIES OF UNCURED MATERIAL	
Filler	Zinc Oxide
Resin Type	Epoxy
Specific Gravity (ASTM D 1475-60)	1.8-2.0 g/cc
Viscosity (Brookfield, 0.5 rpm)	20 – 50 kcp
PROPERTIES OF CURED MATERIAL	
Tensile Strength (Mpa)	16

C.T. E (ASTM E 831), PPM /°C	30
Young's modulus (GPa)	12
Thermal conductivity (W/mK)	10 – 20
Extractable ions (MIL-STD-883E)	
Na+	<5ppm
K+	<5ppm
F-	<5ppm
Cl-	<10ppm

Recommended Curing Conditions

TGP 110A can be cured at 110°C in 15 to 30 minutes.

Storage & Shelf Life

6 months provided materials are kept in a sealed original container under room temperature (25°C). Storage beyond this period can produce higher viscosity. Protect from moisture, evaporation and foreign materials. Process ability of these products can be adversely affected by evaporation and contamination.

Safety

TGP 110A is a friendly, non-toxic material. However, general hygiene practice is recommended when handling this material. For detailed information please consult our SDS.

Package

TGP 110A solder adhesives are available in 5cc, 10cc, and 30cc cartridges. Other packages are available depending upon customer's request. Contact YINCAE for order information.