YINCAE® INNOVATION AT ITS BEST

YINCAE Advanced Materials, LLC
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TGP 88A Reactive Thermal Grease Product Datasheet

Enhance Reliability
High thermal conductivity
Low Cost Ownership

Description

TGP 88A series thermal conductive adhesives are a reactive thermal grease, have very thin BLT and eliminate micro-bubble at the rough interface when applied. It can be cured at 65°C with excellent adhesion between metal and metal. TGP 88A has combined the advantages of thermal grease, thermal gel, thermal pad and thermal phase materials with elimination of disadvantages of these thermal materials. TGP 88A has low cost ownership, higher thermal conductivity and excellent reworkability. 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 88A thermal conductive adhesives
PROPERTIES OF UNCURED MATERIAL	
Filler	Aluminum 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

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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 88A can be cured at 88°C in 3 hours.

Storage & Shelf Life

6 months provided materials are kept in sealed original container under cold temperature (7°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 88A 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 88A solder adhesives are available in 5cc, 10 cc and 30cc cartridges. Other packages are available depending upon customer's request. Contact YINCAE for order information.