

TM150 TM230

YINCAE PRODUCTS

ADHESIVES

TM150 TM230

TRESKY TM150 and TM230 solderable conductive adhesives is rapid cure, self-filling, self-leveling and self-soldering adhesives which can be used as die attach adhesives for LED, CSP, QFP, and so on, to replace conductive adhesives (Ag) or solder materials such as solder paste or preform. By comparison with conductive adhesives (Ag), TM... solderable adhesives has higher stable electrical and thermal conductivity, be able to easily-fill-gap and self-level die, and easily control of the bonding thickness. By comparison with soldering materials, TM's solderable adhesives eliminate the outgassing from soldering process, eliminate die skewing and shifting, soldering bleed. Soldered interface will be encapsulated with the curing of TM150 solderable adhesives, thus soldered metal interface is protected by 3D polymer network, which can tolerate harsh environmental conditions.

High thermal stability

Excellent moisture resistance

High reliability

Product Name	TM150	TM230
solderable conductive adhesives		
PROPERTIES OF UNCURED MATERIAL		
Alloy	Silver	
Resin Type	Epoxy	
Specific Gravity (ASTM D 1475-60)	TM150: 8.2g/cc	TM230: 4.5-5.5g/cc
Viscosity	TM150: 500k cp	TM230: 30-45k cp
PROPERTIES OF CURED MATERIAL		
Tensile Strength (Mpa)	TM150: 56	TM230: 53
C.T. E (ASTM E 831), PPM /°C	TM150: 23.5	TM230: 21.7
Young's modulus (Gpa)	TM150: 26.3	TM230: 41.6
Thermal Conductivity (W/mK)	TM150: 60	TM230: 58
Extractable ions (MIL-STD-883E)		
Na+	<5ppm	
K+	<5ppm	
F-	<5ppm	
Cl-	<10ppm	
Surface insulation resistance (J-STD-004)	Pass	



TRESKY

RECOMMENDED CURING CONDITIONS

TM150: 60 sec. cure at 230°C.

TM230: 5 min. cure at 150°C.

Note: the cure time includes the time to allow the bond location to reach the desired cure temperature. Alternate cure profiles may be evaluated.

STORAGE & SHELF LIFE:

6 months provided materials are kept in sealed original container at -10°C to -20 °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:

TA150 and TA230 is a friendly, non-toxic material. However, general hygiene practice is recommended when handling this material. For detail information please consult our MSDS.

PACKAGE:

TA150 and TA230 conductive adhesives are available in 10cc and 30cc package. Other packages are available depending on customer's request. Contact **TRESKY** for order information.

Note: All specifications are subject to change without notice

REPRESENTED BY:

HEADQUARTERS

Dr. TRESKY AG

Boehnirainstr. 13
CH-8800 Thalwil
Switzerland
Tel.: +41 44 772 1941
Fax: +41 44 772 1945
tresky@tresky.com

TRESKY Competence Center

Lange Enden 29
D-13437 Berlin
Germany
Tel.: +49 30 683 208 92
Fax: +49 30 683 208 94
daniel.schultze@tresky.com

TRESKY Corporation

704 Ginesi Drive, Suite 11A
Morganville, NJ 07751
USA
Tel.: +1 732 536 8600
Fax: +1 732 536 0495
sales@tresky.com

www.tresky.com

