

SMT156

YINCAE PRODUCTS

ADHESIVES

SMT156

TRESKY SMT156 solderable conductive adhesives is rapid cure, self-leveling and self-soldering adhesives which can be used as assembly adhesives to replace solder paste for SMT product line, for bare die eliminating all packaging process: from die attach, to wire bonding, to molding, to ball bumping; eliminating solder paste and their related issues. SMT156 solderable adhesives has higher stable electrical and thermal conductivity, self-level die, and easily control of the bonding thickness. By comparison with soldering materials, SMT156 solderable adhesives eliminate the outgassing from soldering process, eliminate die skewing and shifting, soldering bleed and soldering flux residues. Soldered interface will be encapsulated with the curing of SMT156 solderable adhesives, thus soldered metal interface is protected by 3D polymer network, which can tolerate harsh environmental conditions. It can be used with SMT158 together.

Eliminate solder paste
and related issues

Eliminate all package steps
and all related issues

Dramatically reduce SMT assembly
cost for bare die

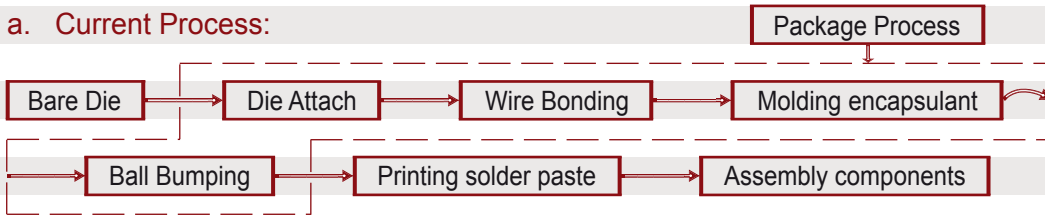
Product Name (Test Method)	SMT156 solderable adhesive
PROPERTIES OF UNCURED MATERIAL	
Alloy	Silver
Resin Type	Epoxy
Specific Gravity (ASTM D 1475-60)	8.2g/cc
Viscosity	700-900k cp
PROPERTIES OF CURED MATERIAL	
Tensile Strength (Mpa)	6-10k cp
C.T.E, PP/°C (ASTM E 831)	23.5
Young's modulus (Gpa)	26.3
Electrical conductivity (S/m)	>10 ⁵
Extractable ions (MIL-STD-883E)	
Na+	<5ppm
K+	<5ppm
F-	<5ppm
Cl-	<10ppm
Surface insulation resistance (J-STD-004)	Pass



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PROCESS / COST COPARISON:

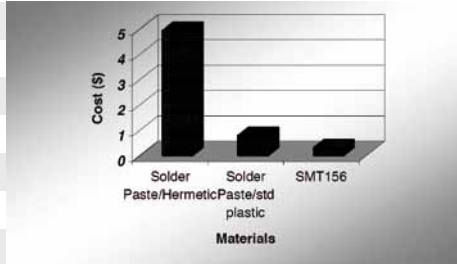
a. Current Process:



b. Our Process:



c. Cost comparison (per 20 leads):



REFLOW AND CURE:

5 min at 150 °C.

Note: 5 min curing time not includes the time to allow the bond location to reach the desired cure temperature. Alternate cure profiles may be evaluated. time from ambient temperature to peak temperature should be 4 to 5 min with a peak temperature from 230 °C to 260 °C.

STORAGE & SHELF LIFE:

6 months provided materials are kept in sealed original container –10 to – 0 °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:

SMT156 is a friendly, non-toxic material. However, general hygiene practice is recommended when handling this material. For detail information please consult our MSDS.

PACKAGE:

SMT156 solder adhesives are available in 6 oz and 8 oz. 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:

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