

WTA 60 Wafer Temporary Bonding Adhesive Product Datasheet

Excellent Protection

Easy Removal

Low Defect Rate

Description

WTA 60, a sacrificial wafer temporary bonding adhesive, which is designed for thin wafer protection and allowed standard semiconductor equipment to process as normal without damaging thin wafer. WTA 60 can be used by spin coating, dispense methods. After coating WTA 60 adhesive onto wafer, it can be dried at room temperature or pre-baked at elevated temperature, then followed by thermal bonding of glass support onto wafer under pressure. After the completion of semiconductor process, the de-bonding process can be completed by using YINCAE WTR 50 to dissolve WTA 60 through the holes of glass support at 50 °C.

Typical Physical Properties

Product Name	WTA 60 Temporary Bonding Adhesive
PROPERTIES OF UNCURED MATERIAL	
Appearance	Transparent colorless liquid
Specific Gravity (ASTM D 1475-60)	0.99 – 1.05 g/cc
Viscosity (ASTM D-1384)	3000 – 8000 cp

PROPERTIES OF CURED MATERIAL	
Glass Transition Temperature (Tg) (ASTM D3418-82)	65°C
Ball Indentation Hardness (30s) (ISO 2039)	130
Humidity Resistance (85C/95RH, 120 days) (IPC-CC-830)	Pass
C.T. E (ASTM E 831), PPM /°C	$\alpha_1 = 65$
Weight loss (%) (300°C) (TGA)	0
Moisture Absorption (ASTM D-570)	<0.01%
Adhesion Moderate (ASTM D2197)	Moderate
Extractable ions (MIL-STD-883E)	
Na+	<5ppm
K+	<5ppm

Recommended Cure Process

WTA 60 can be dried at room temperature or elevated temperature.

Storage & Shelf Life

12 months provided materials are kept in sealed original container at room temperature. Storage beyond this period can produce higher viscosity. Protect from UV light, moisture, evaporation and foreign materials. Process ability of these products can be adversely affected by evaporation and contamination.

Safety

WTA 60 is a friendly, non-toxic material. However, general hygiene practice is recommended when handling this material. For detailed information please consult our SDS.



YINCAE Advanced Materials, LLC
93 Broadway
Menands, NY 12204
T (518) 452-2880
F (518) 452-2779

Package

WTA 60 protective coating is available in one gallon. Other packages are available depending upon customer's request. Contact YINCAE for order information.