

ALPHA[®] STAYSTIK[®] 336T

Non-Filled Dielectric Wafer Coat

DESCRIPTION

STAYSTIK[®] 336T is a thermoplastic polymer specially developed as a temporary bonding adhesive for GaN, GaAs, SiC, and Si wafer thinning in the semiconductor industry. It can also be used for a variety of applications where temporary adhesion is necessary. This adhesive can be easily debonded with Isopropyl Alcohol (I.P.A.)/Acetone leaving no residue or contamination on the surface of the debonded assembly.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

KEY FEATURES & BENEFITS

- Excellent wetting
- Easy removal at elevated temperatures
- Excellent solubility with a variety of solvents, easy cleaning process
- No residue or contamination after cleaning

APPLICATIONS

- * Wafer Lapping
- * Substrate Cutting
- * Wafer Cutting
- * Wafer Polishing
- * Row Bonding for Dicing
- * Lens Polishing

PROCESSING GUIDELINES (Unfilled Paste)

Spin Coating and Hot Plate Baking Processes

Wafer	Hot Plate Bake Temperature (°C)	Spin (krpm)	Time (sec)	Approx. Coating Thickness (µm)
SiC	90	1.3	30	16-17
GaAs/Si	125			
Si	125	1.5		23

- Attach or bonding temperature: 150-160°C
- Wafer debonding or demount temperature: >200°C

- Clean up and removal: Immerse the bonded materials in Isopropyl Alcohol, Acetone, or NMP and allow sufficient immersion time for material to dissolve the adhesive under bonded material

TYPICAL PROPERTIES

Material Properties (Undried)	Method	Value	Remarks
Chemical type		Acrylic Thermoplastic	
Color	Visual	Clear/Amber	
Specific gravity	ASTM D792-00	0.89 g/cm ³	
Dynamic Viscosity @ 1rpm	ASTM D2196-99	2400 mPa·s	@25°C
Dynamic Viscosity @ 10rpm	ASTM D2196-99	2000 mPa·s	@25°C
Flashpoint	ASTM D-93-02	32°C	Tag Closed Cup
Filler Content		0%	
Storage Temperature (Metal Cans)		25°C	
Storage Temperature (Plastic Syringes)		0-10 (°C)	
Shelf Life @ Storage Temperature		12 months	

CLEAN-UP

Undried material may be cleaned from dispenser components and surfaces with a variety of solvents, including IPA, acetone, NMP, MEK, methylene chloride, etc. Always wash and dry thoroughly prior to reuse of the dispenser components. The cleaning technique should be active cleaning of the components – flush, wash or wipe, followed by a drying step to ensure a clean, dry surface. Contact your equipment supplier to ensure the solvent is compatible with their components. Clean and maintain dispense valves as recommended by the equipment manufacturer.

PACKAGING SIZES

This product is available in (250g, 500g) metal cans and (3, 5, 10, 30 or 55) cc cartridges that are compatible with both time/pressure and positive displacement dispense systems.

SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available.**

WASTE TREATMENT

Prior to using any recommendations or suggestions for waste treatment, the user is required to know the appropriate local/state/federal regulations for on-site or off-site treatment which may require permits. If there is any conflict regarding our recommendations, local/state/federal regulations take precedent.

CONTACT INFORMATION

www.macdermidalpha.com

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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