Precision Replacement For Wax Bonding

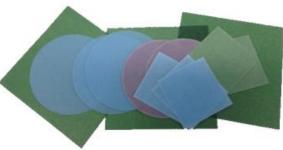
VaterGrip Temporary Adhesive

Suitable For a Wide Variety of Substrates

Applications

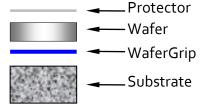
WaferGrip adhesives consist of Ethylene Vinyl Acetate (EVA) polymers. WaferGrip is heat activated to bond two surfaces together. A typical application is the bonding of wafers to mounting substrates for the thinning process.

WaferGrip preformed shapes are manufactured to suit the required application. An accurately controlled bond line provides an efficient and robust process. Wafergrip preformed shapes are available in three formulations: Standard, Conductive and High Temp.

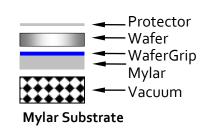


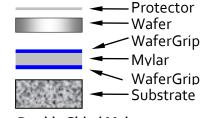
Configurations

WaferGrip is available in three configurations: WaferGrip on release paper, WaferGrip on Mylar[™] and WaferGrip on double sided Mylar (see illustrations below). WaferGrip on release paper is used for many standard applications including wafer dicing and wafer thinning. WaferGrip on Mylar is used as a temporary substrate that allows the user to cut through the wafer into the substrate below. It is typically used in conjunction with a vacuum chuck. Double sided WaferGrip on Mylar is used to bond a wafer to substrate but affords the additional protection of the single sided WaferGrip on Mylar.



Release Paper Carrier





Double Sided Mylar Substrate

WaferGrip Applications

- Wafer Lapping

- Wafer Dicing - Wafer Polishing - Any Other Temporary Wafer Bonding Process



Storage

Store under cool, dry conditions away from direct sunlight. Proper storage temperatures range from -5°C/23°F to 24°C/75°F. For best results keep unopened WaferGrip in the original sealed bag with desiccant. Shelf life at 25°C/77°F and 45% humidity is approximately 1.5 years.

Process Method

WaferGrip is removed from the release paper then applied at room temperature to a mounting substrate (sapphire, glass, etc.). The part or wafer is placed over the WaferGrip. The entire assembly is then heated to 110°C – 230°F for 30 to 60 seconds with light pressure. The use of a vacuum chamber facilitates void free bonding. To remove WaferGrip use Dynatex International's specially formulated solvent StripAid.

Thickness:

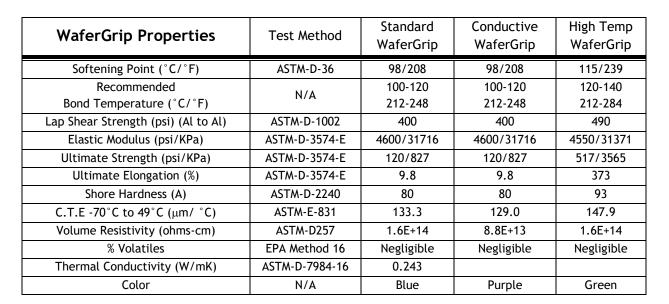
WaferGrip is available in the following thickness ranges: 0.8 +/- 0.15 mil – 20 µm +/- 4 µm 1.35 +/- 0.15 mil – 34 µm +/- 4 µm 2.00 +/- 0.20 mil – 50 µm +/- 5 µm

Resistant To:

Water, IPA, acetone, KOH etch solutions developers and some photoresist strippers.

Wafer Bonding System

Dynatex offers a complete bonding system that is comprised of WaferGrip temporary adhesive, StripAid X solvent and the DXB Wafer Bonder. The DXB Wafer Bonder provides a controlled process environment that is ideal for void free bonding. Additional information is available on request.





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