



IC1010™ Longer Life Pad

DESCRIPTION

The IC1010™ polishing pad is designed for optimal chemical mechanical planarization (CMP) performance on the Applied Materials Mirra and Reflexion polisher platforms. The IC1010 pad is a rigid microporous polyurethane pad with a proprietary radial grooving pattern designed for longer lifetime relative to a standard IC1000™ pad. Like the IC1000 pad, the IC1010 pad offers excellent planarization capability, consistent removal rates, low global non-uniformity, and good defectivity. The longer lifetime of the IC1010 results in less frequent CMP tool downtime for pad changes, improving cost of ownership.

OPTICAL ENDPOINT WINDOW

IC1000 pads are available with a transparent urethane window to enable optical endpoint technology offered in leading edge CMP tools. Advanced optical endpoint pads feature a window that is integrated

the IC pad material during manufacture to prevent slurry leakage and window delamination in all CMP processes.



Optical Endpoint Window

PRODUCT CONFIGURATIONS

Thickness

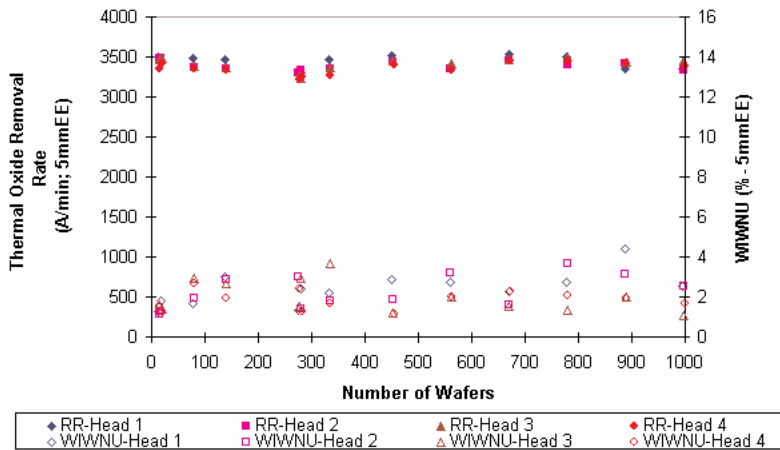
IC1010 pad is offered in a thickness of 80 mils.

Diameter

IC1010 pad is offered in two diameters:

- 20" for 200mm CMP
- 30" for 300mm CMP

IC1010 Extended Run Testing In Applied Materials BKM



creating the
flawless surface

Subpads

A compressible subpad improves the global non-uniformity performance of the IC1010 top pad. Two classes of subpad are available:

- Suba™ IV, the industry standard impregnated felt subpad
- SP2000 series subpads, coated film products which offer enhanced reliability and planarization performance.

PRODUCT MANUFACTURING

IC1010 pads are produced at state-of-the-art ISO 9001 and ISO 14001 certified manufacturing facilities in Newark, Delaware and Mie, Japan. These facilities have the demonstrated capacity to handle the high-volume production requirements of semiconductor fabrication facilities. Both plants have the flexibility to deliver customized pads that address the needs of the most unique CMP processes.

PLATTEN APPLICATION

Only apply to a clean, dry surface at room temperature. If an appropriate solvent, such as isopropyl alcohol, is used to clean the platen after pad removal, allow the platen to dry completely and return to room temperature before applying a new pad. The adhesion of the PSA to the platen could be weakened if the pad is applied to an unusually cool platen or if solvent remains on the platen.

When applying the pad to the platen, peel the release liner from one edge of the pad, fold the liner back approximately 2 inches (5cm), align the pad with the edge of the platen and adhere. In one continuous movement, slowly peel the remaining release liner off the pad while pressing the pad down on the platen. The application should be smooth and uniform using even pressure from a pad mounting tool (such as a flat

disk or hand roller).

PACKAGING

IC1010 pads are delivered on a pressure sensitive adhesive (PSA) backed with a non-particulate release liner. Each pad is double bagged to ensure the cleanliness of each pad is maintained during transportation.

STORAGE

IC1010 pads should always remain flat. Bending pads during handling can cause wrinkles in the PSA and premature delamination of the release liner. It is recommended that IC1000 pads be stored and transported in their original packaging.

This product should be maintained between 10°C to 24°C (50°F to 75°F) and <50% humidity. Exposure for 6 months or less to conditions between -17°C to 48°C (0°F to 120°F) and/or at relative humidity of up to 100% will not impact product performance as long as the release liner remains intact and attached to the PSA. In the event of exposure outside of the recommended conditions the product may still be acceptable for use; please contact your Rohm and Haas Electronic Materials technical representative for recommendations. In all cases the product should be allowed to return to a temperature between prior to use.

SHELF LIFE

Standard shelf life for IC1010 pads is one (1) year from the date of manufacture. It is recommended that all pads be stored in their original packaging.

PRECAUTIONARY NOTES

Follow all MSDS and label precautions as well as good industrial hygiene practices when handling or using this product. Keep this and all industrial materials away from untrained personnel.

DISPOSAL

Dispose in accordance with all applicable regulations.

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