



Rodel® IC1400 CMP Pad

HIGHLIGHTS

Rodel® IC1400 offers:

- Easy integration to existing CMP process
- Improved performance consistency
- Higher removal rate for oxide CMP
- Easier wafer removal

SPECIFICATIONS

PROPERTY	TEST METHOD	RANGE
Thickness	RM10-27-95	99 - 110 mil (2514 - 2794 μm)
Compressibility(%)	RM10-27-95	0.7 - 6.6
Deflection	RM10-27-95	0.6 - 6.9 mil (15.4 - 175.3 μm)

* Rodel® IC1000 top pad is available with various specific gravity specifications based on the maximum pad diameter. Please see the Rodel® IC1000 Product Guide for details.

PERFORMANCE

DESCRIPTION

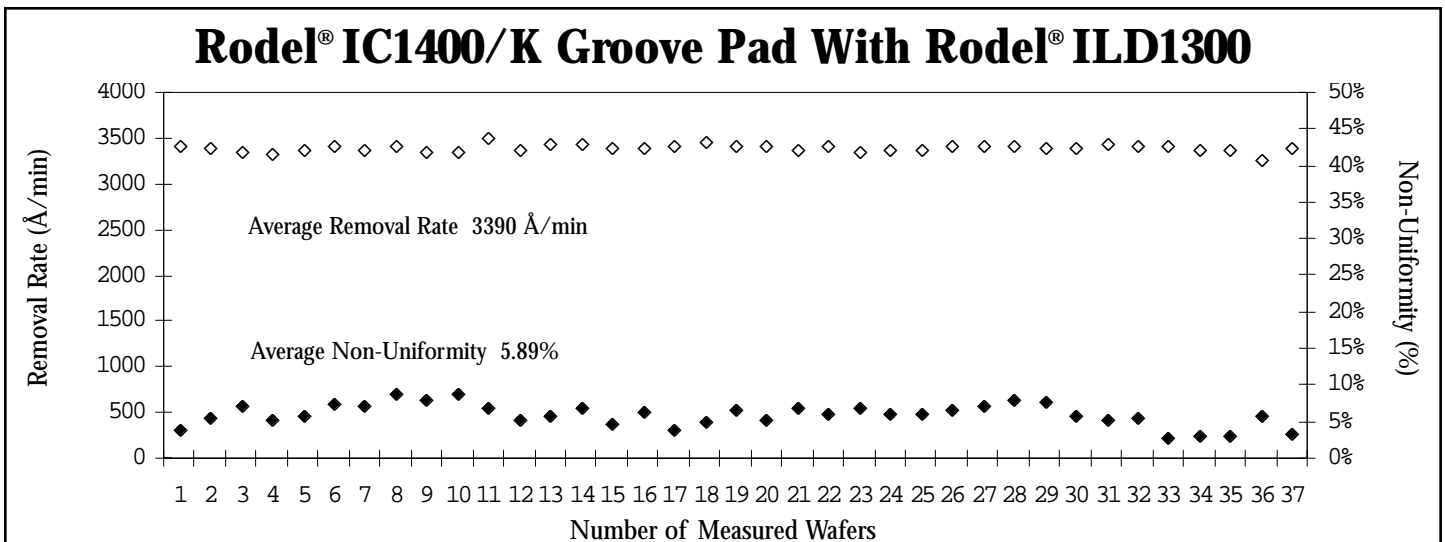
Rodel® IC1400 is a stacked CMP pad, composed of a Rodel®IC1000* top pad and a foam base, designed to provide ease of use and improved consistency of performance. It is available in sizes for all CMP polishers. Typical pad features include:

Top Pad

- Rigid, microporous polyurethane material
- Properties: Thickness 50 mil (1270μm)
Specific Gravity .75 g/cm³
Hardness 57 (Shore D)
Compressibility 2.25%
- Top surface has a concentric groove pattern, 10 mil (254μm) wide, 15 mil (381μm) deep with a 60 mil (1524μm) pitch.

Bottom Pad

Composed of a buffed, high density urethane foam coated with adhesive on both sides. Thickness of the foam and adhesive is 53 mil (1346μm). The top of the foam has a permanent acrylic adhesive. The bottom of the foam is coated with a differential adhesive -- a permanent acrylic adhesive facing the foam and a temporary rubber based adhesive facing a clean room grade polyester release liner. A 2 mil (50.8μm) polyester carrier separates the permanent adhesive from the temporary rubber based adhesive.



SHIPPING, HANDLING AND STORAGE

Rodel® IC1400 Pads packaged in Rodel standard Clean Packs:

- Double packaged in specially treated bags to reduce static charge buildup.
- Cleaned with high efficiency particle absolute (HEPA) vacuum.
- Pressure sensitive adhesive (PSA) backed with non-particulate release liner.

Standard shelf life is 1 year from date of lamination. It is recommended that Rodel® IC1400 pads be stored in their original packaging at temperatures between 50° and 75°F (10° - 24°C). Once pads are removed from package, maintain at less than 50% relative humidity. The shelf life of pads may be reduced if stored in conditions outside these ranges.

Pads should always remain flat and not be stacked more than 20 pads high. It is best to store and transport pads in their original boxes until used. All pads are packaged individually to prevent contamination prior to application. Bending during handling can cause wrinkles in the PSA and premature delamination of the release liner.

PRECAUTIONARY NOTES AND DISPOSAL

Follow all MSDS and label precautions when handling or using this product. Follow good industrial safety and hygiene practices when handling or using this product. Keep this and all industrial materials away from untrained personnel. Dispose in accordance with applicable regulations.

APPLICATION TO PLATEN

Apply only 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 the pad. Solvents remaining on the platen, or an unusually cold platen will lower PSA adhesion.

When applying the pad to the platen, peel the release liner from one edge of the pad. Fold liner back approximately 2". 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 with even pressure from a pad mounting tool (such as a flat disk or hand roller).

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