



# Rodel® IC1000 CMP Pad

## BENEFITS

As the industry standard pad for CMP, Rodel® IC1000 offers localized uniformity, excellent removal rate and non-uniformity, and low defectivity.

## DESCRIPTION

The Rodel® IC1000 CMP pad is made of a rigid, microporous polyurethane material. This attribute allows the material to planarize across wide gaps, providing excellent removal rates and localized uniformity. The small pore structure works effectively with slurries to minimize microscratching and provide optimum polishing performance. The Rodel® IC1000 CMP pad can be perforated or grooved depending upon the process being used.

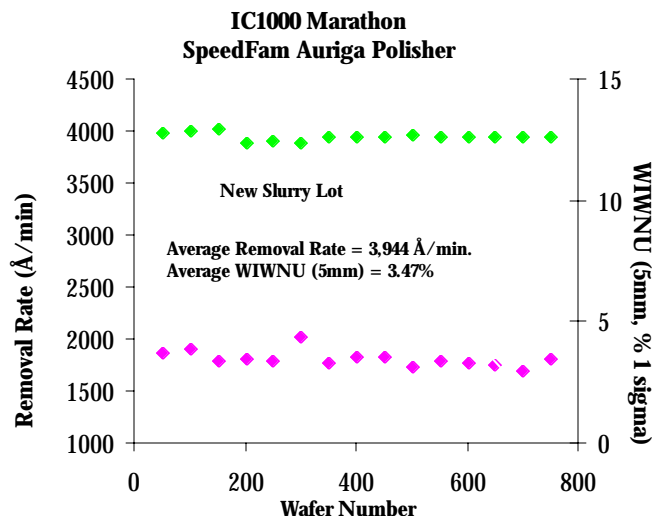
## TYPICAL PROPERTIES

- Rodel® IC1000 pads are available in standard diameters with thicknesses of 50 and 80 mils.
- Rodel® IC1000 pads are available in different styles and specific gravity ranges to meet the needs of different processes.

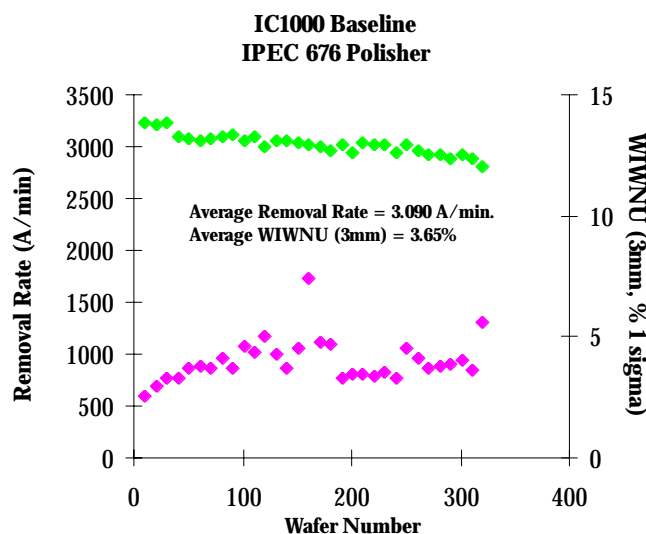
STYLE	MAXIMUM DIAMETER	SPECIFIC GRAVITY (G/CM <sup>3</sup> )
A1	26" (66 CM)	0.63 – 0.80
A2	26" (66 CM)	0.74 – 0.85
A3	30" (76 CM)	0.70 – 0.85
A4	32" (81 CM)	0.63 – 0.80

**THICKNESS:** 50 mils (1270 µm)  
**HARDNESS:** 57 (Shore D)  
**COMPRESSIBILITY:** 2.25%

## PERFORMANCE



**Wafer Type:** 200 mm PETEOS    **Downforce:** 370 lbs.  
**Speeds:** 35 rpm table/45 rpm carrier/0.6" per sec. oscillation  
**Slurry:** Fumed silica    **Flow Rate:** 750 ml/min  
**Polish Time:** 120 sec.    **Other:** I.D./O.D. = 10.6"/12.8"



**Wafer Type:** 200 mm PETEOS    **Downforce:** 6 psi  
**Speeds:** 400 orbits/min.    **Slurry:** Klebosol 1501  
**Flow Rate:** 150 mL/min.    **Polish Time:** 150 sec.  
**Other:** Edge gap 0.967" - New conditioning hardware

**Note:** The above charts are typical examples under different process conditions and are not intended to be used to compare polisher performance.

## SHIPPING, HANDLING AND STORAGE

**Rodel® IC1000 Pads are packed in Rodel standard Clean Pack:**

- Double bagged
- Pressure sensitive adhesive (PSA) backed with non-particulate release liner
- Details furnished upon request

It is recommended that this product be maintained at temperatures in the range of 50°F - 75°F and <50% humidity up to the expiration date. Exposure for 2 months or less to conditions outside the range of 0°F and 120°F and/or at relative humidity of up to 100% will not impact the product performance. In the event of exposure outside of the recommended conditions the product may still be acceptable; please contact your Rodel technical representative for recommendations. In all cases the product should be allowed to return to normal room temperatures (50°F - 80°F) prior to use.

Standard shelf life is 1 year from date of manufacture. It is recommended that Rodel® IC1000 pads be stored in their original packaging. Once pads are removed from package, maintain at less than 50% relative humidity. The shelf life of pads stored in conditions outside these ranges may be reduced.

Pads should always remain flat. It is best to store and transport pads in their original boxes until used. All pads are packed 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.

## PLATEN APPLICATION

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 inches. 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).

[www.rodel.com](http://www.rodel.com)  
[info@rodel.com](mailto:info@rodel.com)

### UNITED STATES

Phoenix, Arizona  
Tel: 602.431.0500  
Fax: 602.431.0200

Newark, Delaware  
Tel: 302.366.0500  
Fax: 302.366.0187

Customer Service  
800.404.8775

24/7 Technical Hotline  
(USA) 800.763.3526  
(Int'l) 520.882.1764

### EUROPE

Feldkirchen, Germany  
Tel: 49.89.904.8370  
Fax: 49.89.904.83799

Mimet, France  
Tel: 33.4.42.69.9418  
Fax: 33.4.42.699419

### TAIWAN

Tainan Hsien  
Tel: 886.6.2828908  
Fax: 886.6.2514145

Hsinchu City  
Tel: 886.3.572.5899  
Fax: 886.3.573.6800

### KOREA

Seoul  
Tel: 82.2.598.4881  
Fax: 82.2.598.4882

### MALAYSIA

Penang  
Tel: 60.4.370.1212  
Fax: 60.4.370.1010

### SINGAPORE

Tel: 65.861.9153  
Fax: 65.862.5976

### JAPAN

Nara Prefecture  
Tel: 81.743.56.8241  
Fax: 81.743.56.1297

Tokyo  
Tel: 81.3.3572.1637  
Fax: 81.3.3571.5684

Osaka  
Tel: 81.6.6563.1291  
Fax: 81.6.6563.1292