

High precision substrates

Cleanroom

Handling in semiconductor manufacturing environment:

Metal contamination < 1 * 10 10 atoms/cm (measured by ICP-MS at Silica glass wafer)



Automatic cleaning equipment Class 10 (@0.1 µm)

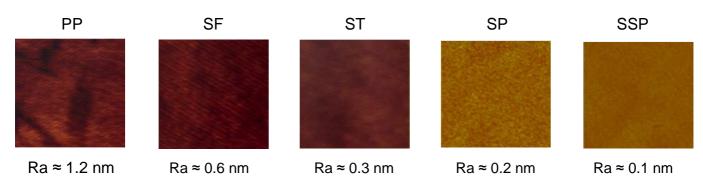


Inspection: Clean bench, Class 1 (@0.1 µm)

Achievable Surface Roughness

Handling in semiconductor manufacturing environment:

Metal contamination < 1 * 10 10 atoms/cm (measured by ICP-MS at Silica glass wafer)



Dimensions and Optics

- Wafer type: 4" 12" (accord. to SEMI Standard)
- Thickness from 200 µm ±10 µm to...
- Round/square shape up to Ø/□ 400 mm * 40 mm
- Flat or notch, Irregular or Special shape, Laser labeling,

. . .



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Application

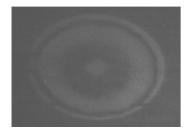
High temp. Poly-Si TFT-LCD, Micro lens array, Si back grinding support wafer, MEMS cover glass, Nano imprinting mold, Bio chip, Chemical chip, Optical communication parts,...

Material

OHARA-Quartz, OHARA Optical Glass, OHARA Glass Ceramic, Quartz, Borofloat, AF45, Eagle, Soda-Lime,...

High Precision

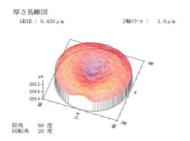
i.e.: TTV, Flatness, GBIR, LTV



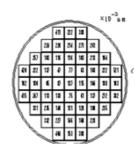
Interferometer photograph 8" wafer (0.3 µm/fringe)



Ultra Precision Flatness measuring system NANOMETRO 300TT for 12" wafer



Bird view thickness 82 wafer (GBIR = $0.4 \mu m$)



Site flatness of 12" wafer (LTV = $0.5 \mu m$)