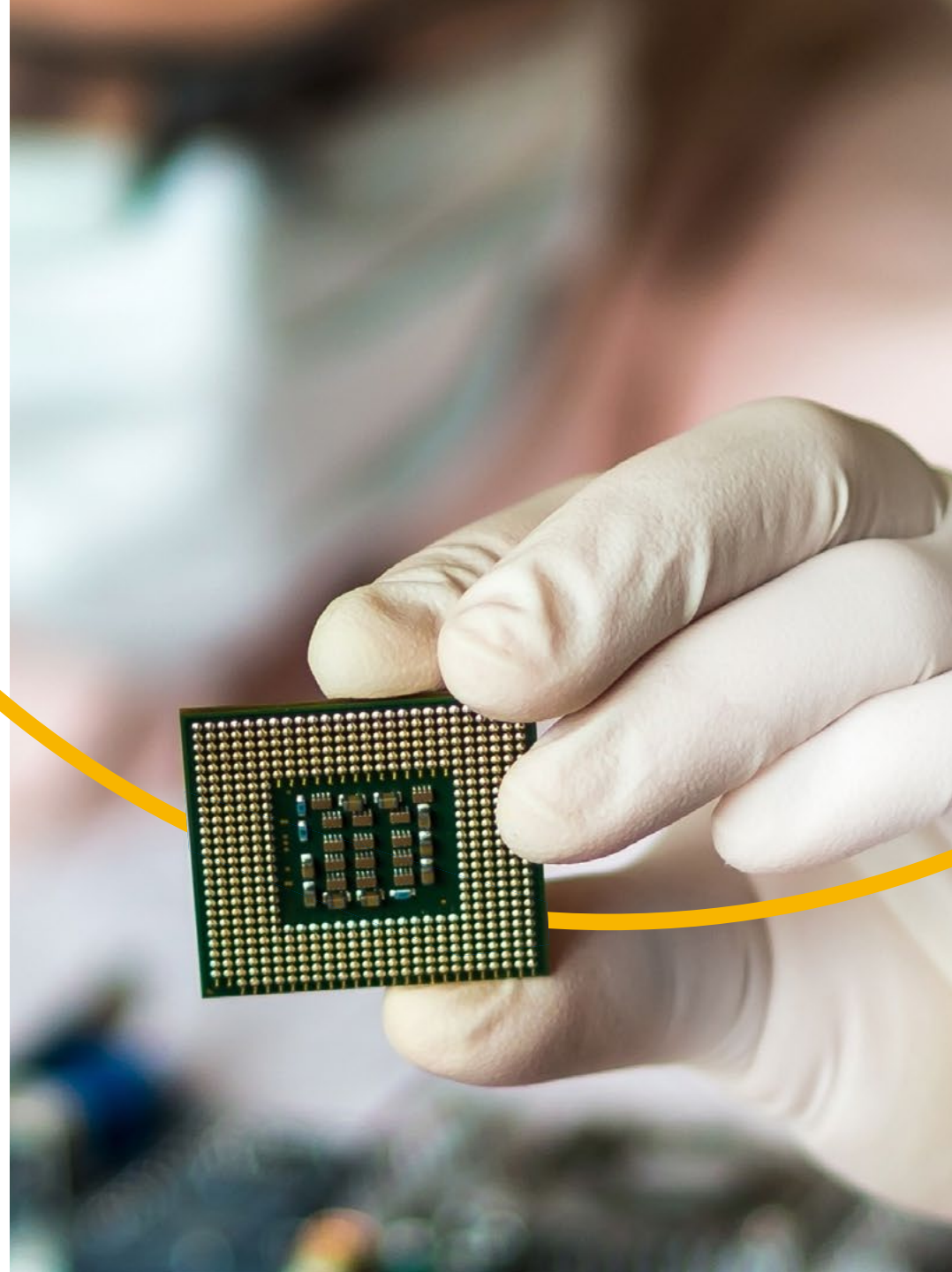
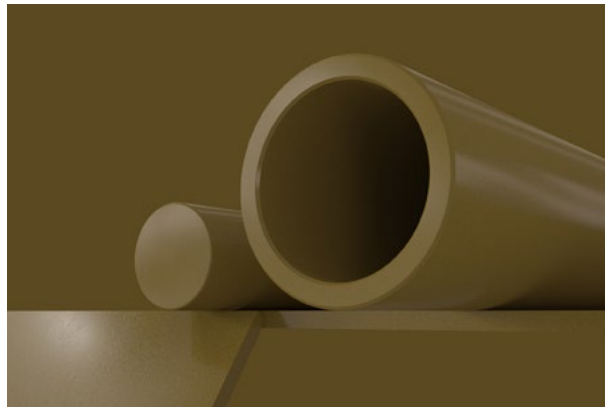
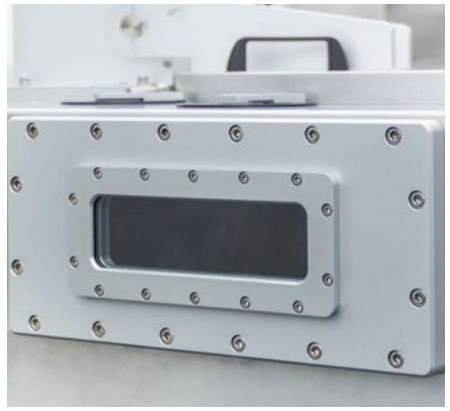
MITSUBISHI CHEMICAL GROUP

Semitron® MPR 1000







Clean, resistant and optimized material solution for vacuum chambers

Semitron® MPR 1000 possesses excellent heat resistance and low rates of erosion in plasma chambers. Due to these characteristics, it is often chosen for vacuum chamber applications within etch, CVD, and ion implant sub segmentations in the semiconductor and electronics industry.

The product shows increased lifetime over traditional materials such as polyimide, for example up to 25x over polyimide in ozone in some cases, and is often specified against traditional materials used in vacuum chamber applications such as quartz, ceramics, polyimides and other engineering plastics, as MPR 1000 lasts much longer over time.

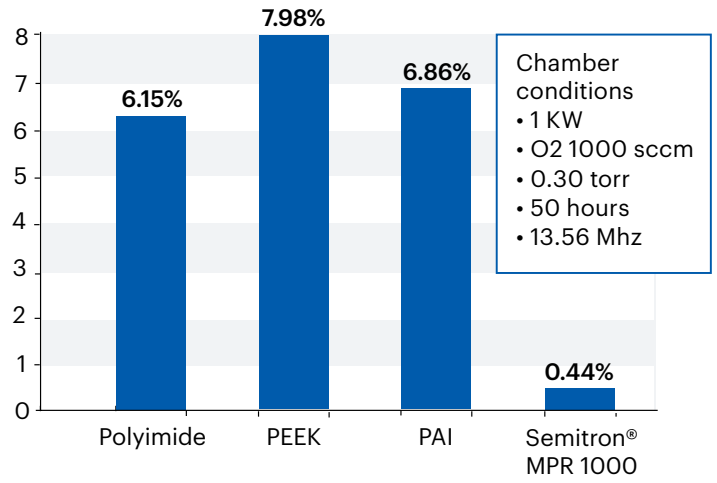
Why Semitron® MPR 1000?

- Enhanced PAI formula
- Low ionic content & low out-gassing
- Excellent heat resistance
- Minimized rate of erosion in plasma chambers
- Optimal chip resistance, durability, and machinability
- Designed specifically for demanding chamber applications

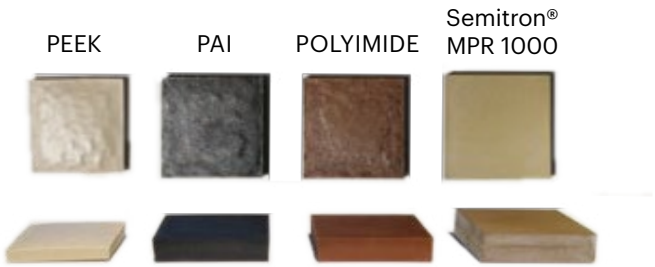
Recommended applications

- Vacuum chambers that utilize oxygen plasma
- Clamp rings, trench rings, hangers, screw pins, and shower heads
- Centering pins, focus rings, insulators, vacuum pads, and wafer guides

Percentage of weight loss in oxygen plasma - Lower energy



2KW O2 plasma samples - Displays mass loss - All samples started at approximately the same size



Semitron® MPR 1000 has less than 0.5% erosion in 1KW O2, 13x better than PI

Download datasheet

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