

**SIMPLY NO
SUBSTITUTE**

Semitron® ESd Family of Products

Acetrion®
GP

Duratron®
PAI, PEI, PI, PBI

Ertalyte®
PET-P

Fluorosint®
PTFE

Ketron®
PEEK

Nylatron®
PA6

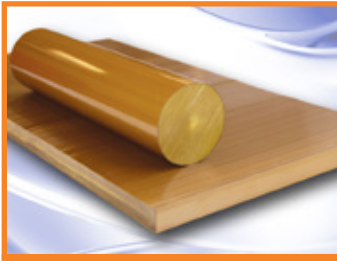
Sanalite®
HDPE/PP

Semitron®
ESd

Symalt®
Fluoropolymer

Techtron®
PPS

TIVAR®
UHMW-PE

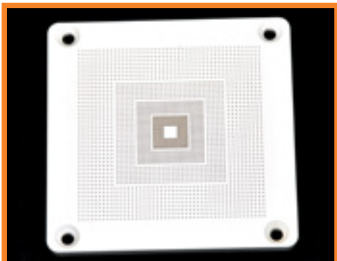


Semitron® MPR 1000

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- Excellent heat resistance
- Lowest cost plastic solution that also provides the highest level of performance in the chamber
- Low rate of erosion in plasma chambers

Applications : Plasma Based Vacuum Chambers, Clamp Rings, Trench Rings, Screws, Pins, Shower Heads, Focus Rings, Insulators, Vacuum Pads

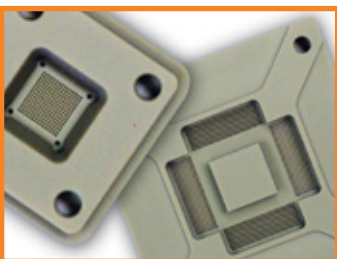


Semitron® MP370

Semitron® MP 370

- Very low moisture absorption
- Strength and stiffness that exceed unfilled PEEK materials
- Excellent machinability

Applications : IC Test Sockets, Insulating Blocks and Fixtures, Structural Parts for Semiconductors Manufacturing Equipment



Semitron® MDS 100

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- Moisture absorption of .10% at 24 hrs. (per ASTM D570)
- Thermal performance to 410°F (210°C)
- Flexural modulus > 1,400,000 psi

Applications : Test Sockets, Fixtures for Electronic Testing, Mounting Points



Semitron® ESd 225

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- Surface resistivity: 1010 - 1012 ohms/sq.
- Thermal performance to 225°F (107°C)

Applications : Wafer Combs, Hard Disk Drive Fixtures

Semitron® ESd 410C

- Low stress for tight tolerance machining
- High strength and stiffness
- Thermal performance to 410°F (210°C)

Applications : Handling Trays

Semitron® ESd 420

- Only, truly dissipative plastic product for use in high temperature applications
- Surface resistivity: 106 - 109 ohms/sq.
- Thermal performance

Applications : Test Sockets for IC Chips, Probe Card Components



QUADRANT

Semitron® ESd Family of Products Cont.



Semitron® ESd 500HR

Semitron® ESd 420V

- Dissipative performance of 106 - 109 ohms/sq
- No dimensional change as a result of exposure to moisture
- Cost Effective alternative

Applications : Test Sockets for IC Chips, Probe Card Components

Semitron® ESd 480

- Very dimensionally stable
- Exceptional chemical resistance
- Not subject to dielectric breakdown

Applications : Critical Test Fixtures, Wafer Handling, Test Sockets for IC Chips

Semitron® ESd 490HR

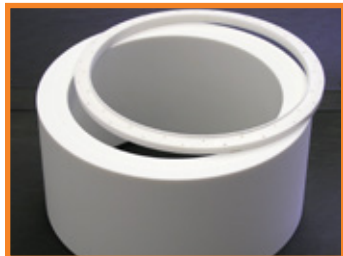
- Surface resistivity: 1010 - 1012 ohms/sq
- Higher resistivity PEEK

Applications : Critical Test Fixtures, Wafer Handling, Test Sockets for IC Chips, Inserts

Semitron® ESd 500HR

- Thermal performance to 500°F (260°C)
- Very low coefficient of friction
- Broad chemical resistance
- Thermal performance to 500°F (260°C)

Applications : Inserts, Sockets for Test Equipment



Semitron® CMP LL5

Semitron® ESd 520HR

- Combination of electrostatic dissipation (ESd), high strength and heat resistance
- Resist dielectric breakdown at high voltages (>100V)

Applications : Nests, Sockets and Contractors for Test Equipment and Other Device Handling Components, IC Device Testing Fixtures

Semitron® CMP LL5

- Long life material - up to 5x PPS
- Ideal for CMP applications up to 140°F (60°C)
- Best performance in oxide chemistries - up to 8x PPS

Applications : CMP Applications



Semitron® CMP XL 20

Semitron® CMP XL 20

- Significantly lower cost per wafer
- Outperforms PPS up to 20x in most processes
- High strength and stiffness promotes fewer edge defects and better uniformity

Applications : Etch and CVD Chamber Applications, CMP Applications

All statements, technical information and recommendations contained in this publication are presented in good faith, based upon tests believed to be reliable and practical field experience. The reader is cautioned, however, that Quadrant Engineering Plastic Products does not guarantee the accuracy or completeness of this information and it is the customer's responsibility to determine the suitability of Quadrant's products in any given application.

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