Plastics for Semiconductor and Electronics Manufacturing



BENEFITS OF PLASTIC:

- Static dissipative grades
- Chemical resistance
- Low particle generation in bearing and wear applications
- Low outgassing characteristics
- Low levels of extractables when placed in high purity chemicals
- High temperature capabilities
- Electrical insulating properties
- Dimensional stability

Engineering materials to fulfill your needs

Curbell Plastics has materials to meet the most demanding application requirements of the semiconductor industry. We know that materials must perform well in extreme environments including corrosive chemicals, vacuum conditions, high temperature, and extreme wear while maintaining purity and reliability.

Plastic materials are used for a wide range of semiconductor applications including chemical tanks, high temperature components, and static electricity control devices.

Material selection, expert advice

"Curbell worked with our designers to solve a difficult dimensional stability problem. They provided us with polymer materials that allowed us to maintain tight tolerances over a wide temperature range."

- Curbell Customer Feedback

TYPICAL APPLICATIONS:

- Bearings and bushings
- Chemical mechanical planarization
- Chemical tanks
- Electrical insulators
- Flexible tubing
- Guards and shields
- PCB solder pallets
 - Polishing rings
 - Spin chucks
- Static control applications
- Test sockets
- Vacuum wand tips
- Valve components
- Wafer handling parts
- Wet benches and work stations

COMMON MATERIALS:

- Acetal
- Anti-static, static dissipative, and conductive plastics
- CPVC
- Dupont[™] Vespel® Polymide
- ECTFE (Halar®)
- FEP
- Flametec[®] Clean Room
 PVC-C
- Fluropolymer tubing
- FR polypropylene
- Nylon
- PAI
- PEEK
- PET
- PFA
- Polycarbonate
- Polyester films
- Polyimide tape
- Polypropylene
- Polysulfone
- PPS
- PTFE
- PVDF (Kynar®)
- Soft RTV silicone potting gel
- Ultem[®]





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