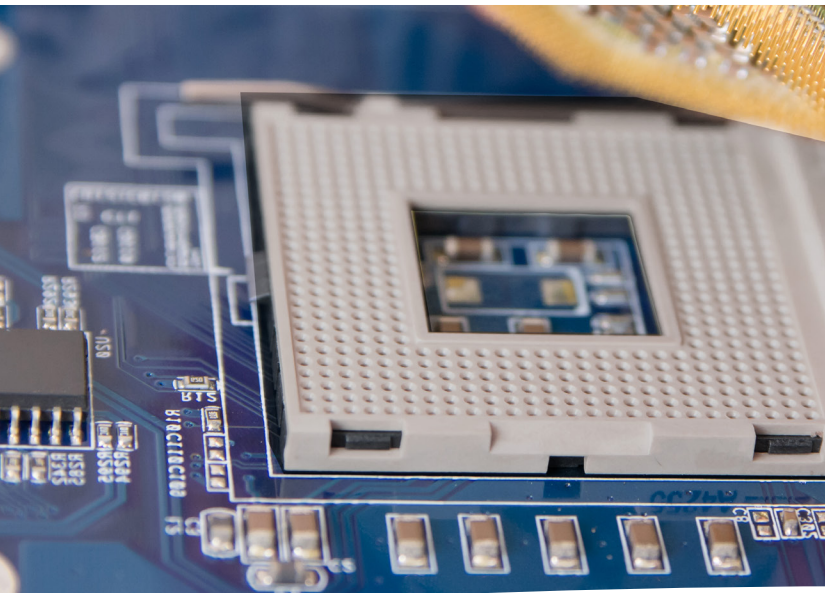


Plastics for Semiconductor Burn-in Test Sockets



BENEFITS OF PLASTIC:

- Easy to machine to complex shapes
- Grades available with outstanding dimensional stability
- Electrical insulating characteristics
- Grades available with ESD properties
- Wear resistance
- Low particulate generation
- Low outgassing

High performance plastics for semiconductor test sockets

Semiconductor test sockets need to have good mechanical properties and excellent wear characteristics so that they will maintain their dimensions for many cycles of use. Test socket applications require plastics that can function throughout a broad operating temperature range with low particulate generation and low outgassing to minimize contamination of the IC chips during testing.

The plastics used for test sockets also need to have good machinability, low moisture absorption, low rates of thermal expansion, and excellent dimensional stability so that tight pitch, small diameter holes can be cleanly and precisely drilled into the material.

Material selection, expert advice

"We were having dimensional stability issues with some of our larger test sockets that had extremely tight dimensional tolerances. Curbell worked with us to identify a material that had the machinability and dimensional stability to meet our application requirements."

– Customer Testimonial

TYPICAL APPLICATIONS:

- Burn-in test sockets
- Fixturing

COMMON MATERIALS:

- DuPont™ Vespel® SP-1
- DuPont™ Vespel® SCP-5000
- Duratron® 4203
- Duratron® 5030
- Duratron® 5530
- EtroX® V
- PEEK
- 30% Glass-filled PEEK
- Semitron® MDS 100
- Semitron® MP 370
- TECAPEEK® CMF
- Torlon® 4203
- Torlon® 5030
- Torlon® 5530
- Ultem® - natural and black
- Glass-filled Ultem®



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