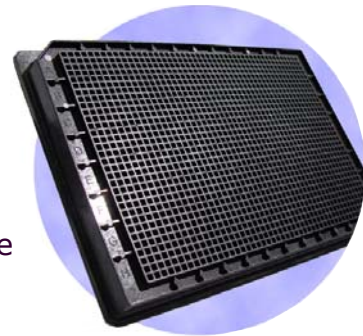


COOLPOLY® THERMALLY CONDUCTIVE PLASTICS

FOR PCR TUBES AND TRAYS

CoolPoly thermally conductive injection molding grade thermoplastics are ideal solutions for applications involving heat transfer and thermal cycling. Microtiter and similar tubes and trays used for PCR (Polymerase chain reaction) are injection molded from CoolPoly E1201 thermally conductive polypropylene. E1201 has been formulated to offer the following advantages compared to conventional polypropylene.



Thermally conductive plastics offer:

- FASTER THERMAL CYCLING (UP TO 6 TIMES FASTER)
- MORE ACCURATE TEMPERATURE PROFILE
- LOWER BACKGROUND EMISSION

CoolPoly E1201 has a thermal conductivity approximately 50 times the conductivity of conventional polypropylene. As a result, heat is efficiently transferred through the wall, drastically reducing the time required for each thermal cycle. The temperature profile of the fluid precisely reproduces the intended profile of the thermal cycler. The wall temperature is uniform even with thickness variation. E1201 was formulated to provide low background emissions significantly enhancing the signal-to-noise ratio and the sensitivity of the measurement.