An epoxy matrix composite mould tool has been manufactured using a novel liquid resin infusion tooling system. The integrity of the embedded electrical heater has been confirmed using thermography.

Tool face during heat-up showing cool spots/lines corresponding to the thermocouple positions/wires and cooler outline at the resin-rich mould cavity lip.

Tool face at target temperature of 90°C showing ~10°C variation across the component.

Insulated back surface during dwell at 90°C.

Tool back face (GRP side) without insulation, showing the resistive heater element spacing (horizontal shading).