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Title: Thermomechanical behavior of resin bonded foundry sand cores during casting

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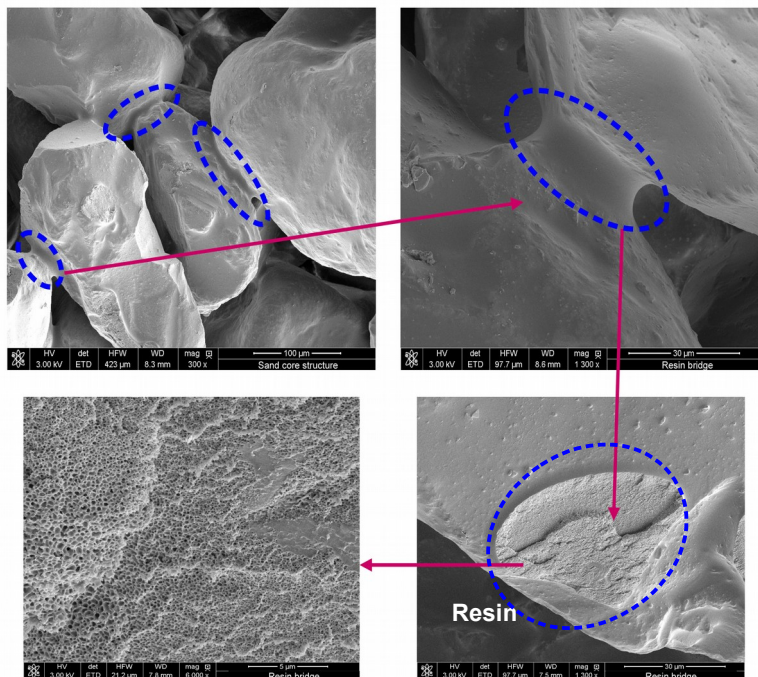
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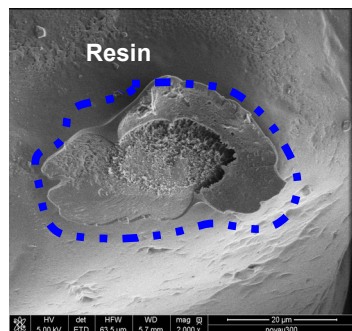
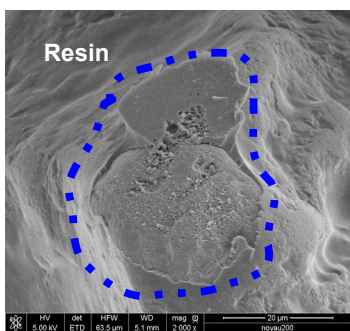
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Sand core initial microstructure

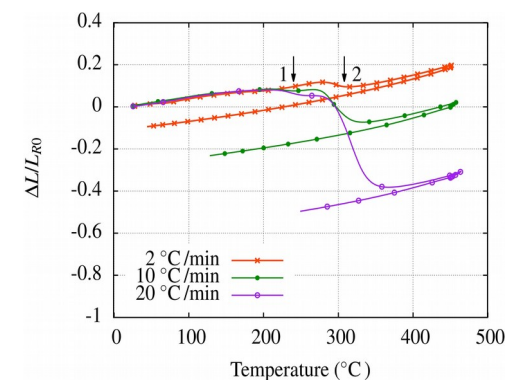
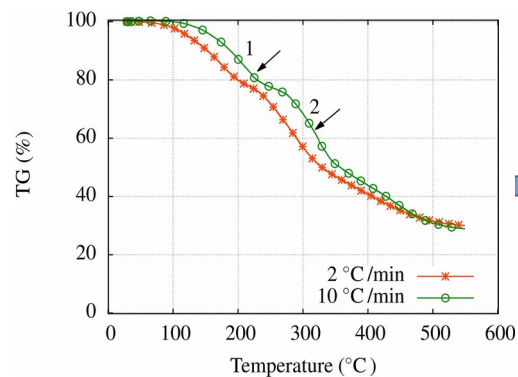


200 °C

300 °C

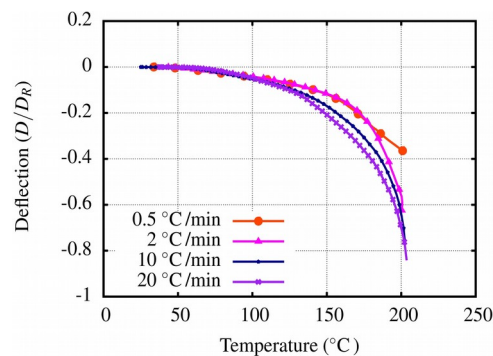


Thermophysical analysis

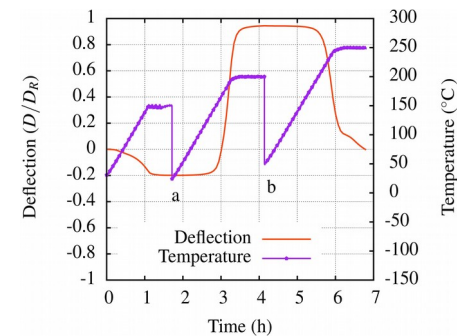


Thermomechanical analysis

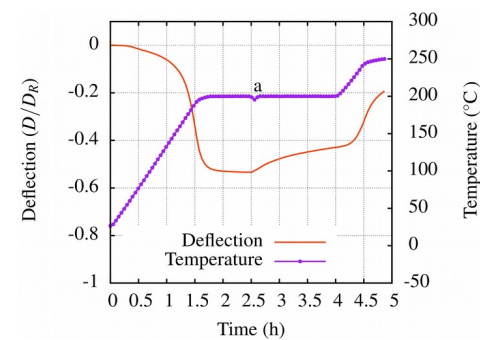
Bending tests



At points "a" and "b" with temperature change



At point "a" without temperature change



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