

Capacity Area A3 Topic 1.1 Milestone 2

**Industrial impregnation tool validation**

The design of the mold is finished and the production of the mold is ongoing. The final mold should arrive in the autumn 2019 and will be tested thereafter.

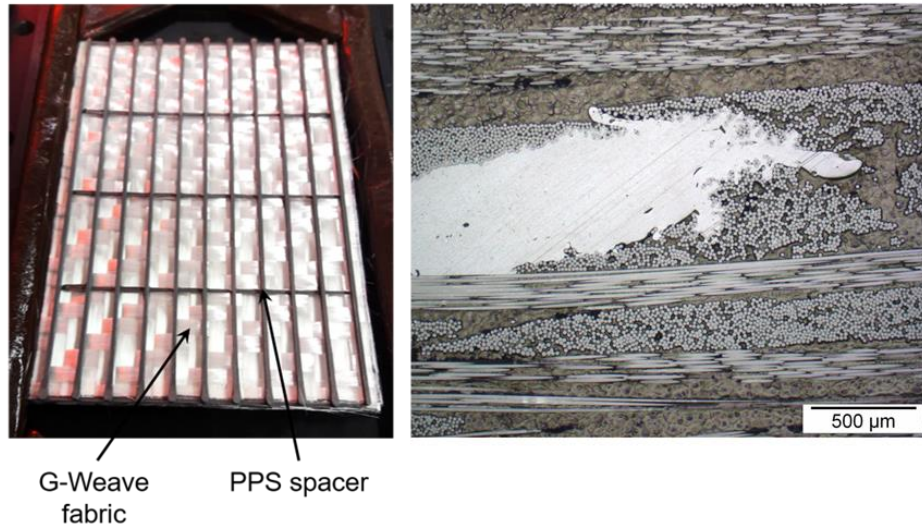


Figure 1. Development and validation of thermoplastic resin transfer molding achieving short cycle times for impregnation of standard fabrics using permanent or collapsible spacers.

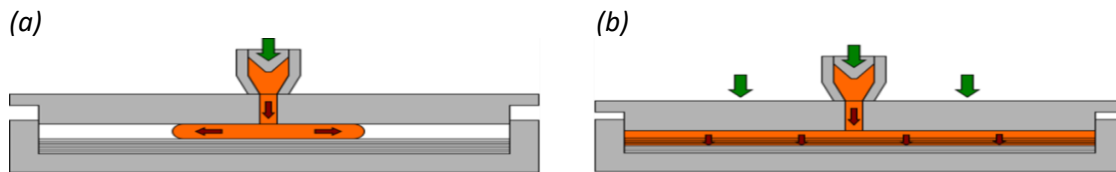


Figure 2. (a) Flow through the gap; (b) trough-thickness impregnation with compression.

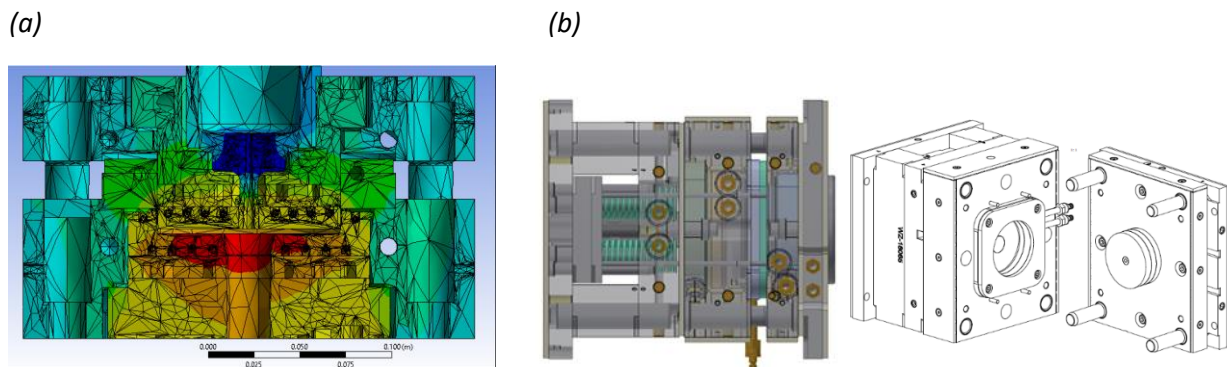


Figure 3. (a) Thermal simulation of the cavity verifying impregnation and sealing performance of the process; (b) Injection compression mold for through-thickness impregnation.