

Computational Modeling of Intelligent Soft Matter

Shape Memory Polymers and Hydrogels



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Table 3.1 Summary of 3D printer settings [17].

Printer setting	Value
Layer height	0.2 mm
Shell thickness	0.4 mm
Fill density	100%
Print speed	20 mm/s
Nozzle size	0.4 mm
Nozzle temperature	200 °C
Print-bed temperature	50 °C
Filament diameter	1.75 mm



Figure 3.15 The samples produced by FDM method [17].

this method of production. Whereas the initial printing conditions can affect the mechanical properties, all samples are printed with the same conditions. 3D printer specifications are listed in Table 3.1.

Printed parts using additive manufacturing are depicted in Fig. 3.15. As one may observe, beams are printed using the FDM method with high quality, while each one has a total mass of 4.5 g.

3.3.2.3 The effect of 3D printing on shape memory polymer response

The FDM manufacturing method has a layered structure, which should be considered in the printing of SMP structures. Samples produced using this method normally do not have a homogeneous structure. As shown in Fig. 3.15, layers are distinguishable. This layered structure affects the thermomechanical properties of samples. To eliminate these effects, Rauch et al. [20] conducted some analogous thermomechanical experiments on several additives manufactured samples, before and after the annealing process. Shape memory properties of the annealed samples were improved in some annealing temperatures. Therefore to assure compatibility between the experiments and model predictions, sample production conditions should be the same in both the final structures and those prepared for calibration tests. For example, dynamic mechanical analysis (DMA) tests should be carried out on the printed samples.

Modeling Of Soft Matter

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