

Synthesis of Novel Shape Memory Thermoplastic Polyurethanes (SMTPUs) from Bio-based Materials for Application in 4D Printing Filaments

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Supporting Information

Table S1. Photographic images of the loading set-up and the resulting products during the preliminary test before 3D printing.































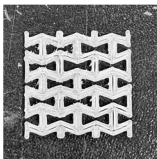
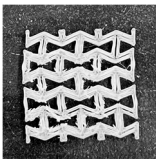
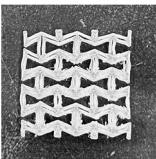
Sample	190 °C		200 °C		210 °C		220 °C		230 °C	
	loading	product	loading	product	loading	product	loading	product	loading	product
MP 1/2.22/1.22										
MP 1/1.90/0.90										
MP 1/1.50/0.50										

Table S2. Images of the auxetic re-entrant shape memory thermoplastic polyurethane samples.

Sample	MP 1/2.22/1.22	MP 1/1.90/0.90	MP 1/1.50/0.50
Image			
Nozzle Temperature (°C)	210	230	230

Weight (g)	0.70	0.74	0.67
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