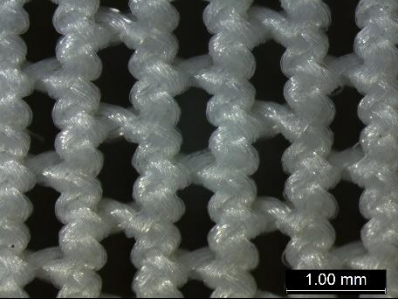


Supplementary Files

1. Supplementary Table 1. 3D printing parameter

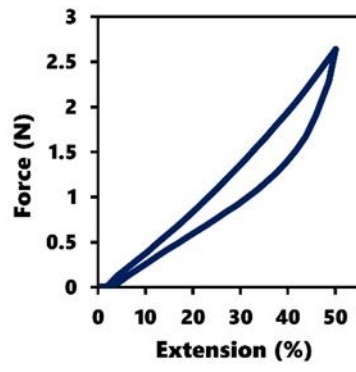
Print mixture (first layer/the other layers)	SILBIONE® RTV 4410 1:1 A&B + 0.2/.2.0 wt% THI-VEXTM
Nozzle diameter (mm)	0.4
Printing speed (mms ⁻¹)	20
Build platform temperature (°c)	70
Head temperature (°c)	0
Path width (mm)	~0.6
Inner structure pattern(°)	0.90

2. Supplementary Table 2. Specification of the warp knitted fabric

Thickness (mm)	0.224
Weight (g/m2)	165
Appearance	
Content (nylon%/spandex%)	83/17

3. Supplementary Table 3. Parameters for the finite element model

Component	Material model	Young's modulus (MPa)	Poisson's ratio	Type of element	Mesh size (mm)	Mesh type
Wrist bones	Surface	Nil	Nil	Nil	Nil	Nil
Hand	Elastic	0.177	0.4	Solid	1	Tetra element
Silicone elastomer	Elastic	0.17	0.48	Solid	1	Tetra element
Garment	Elastic	1.02	0.42	Shell	1	Quadrilateral



4. **Supplementary Figure 1.** Force extension curve of the warp knitted fabric