

Supporting Information for

## Superelastic Radiative Cooling Metafabric for Comfortable

### Epidermal Electrophysiological Monitoring

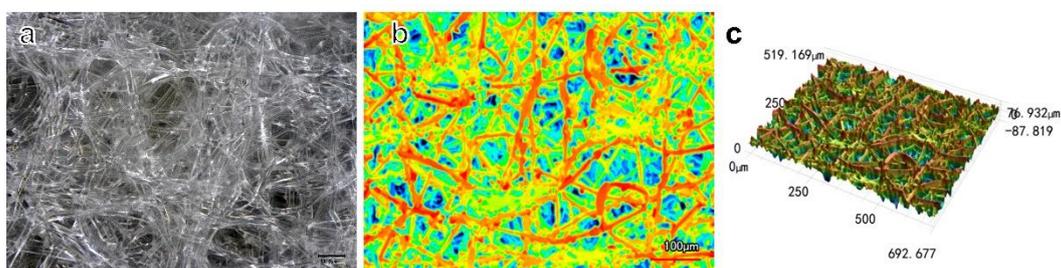
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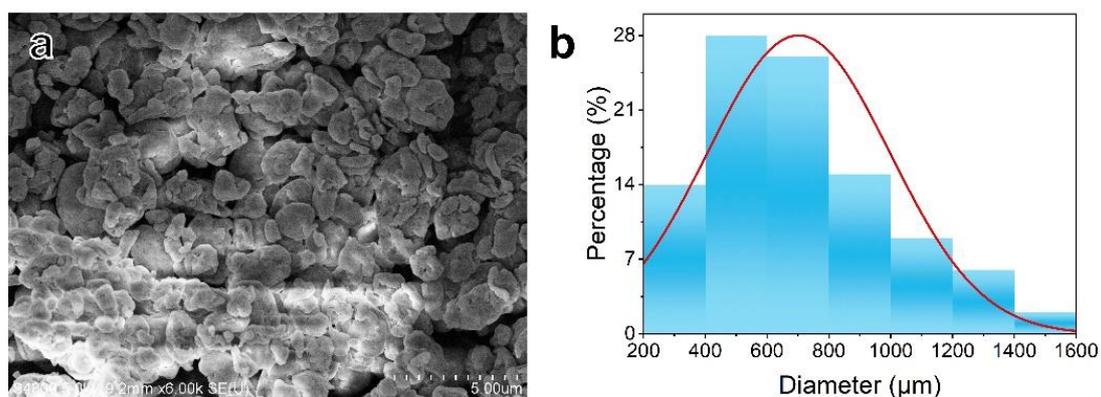
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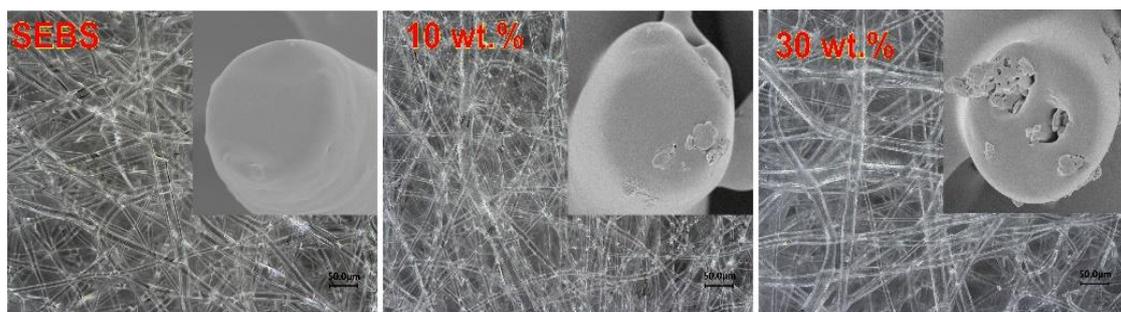
### Supplementary Figures



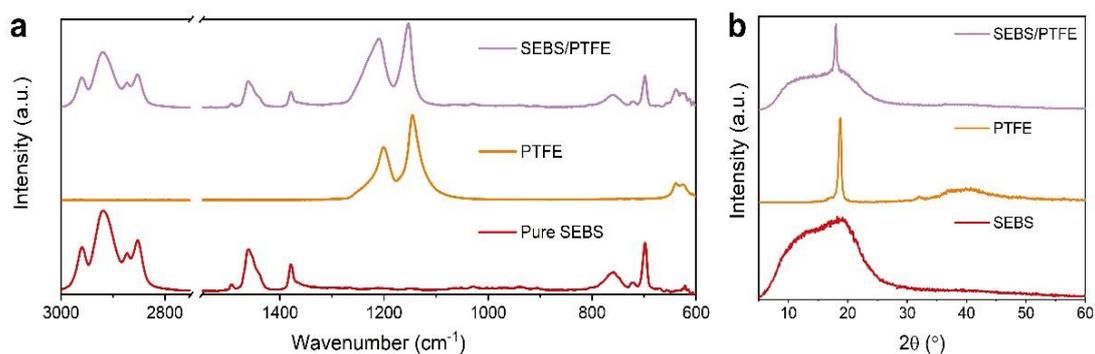
**Fig. S1** (a) Optical microscopic, (b) contour map and (c) 3D surface topographic images of pure SEBS fabric



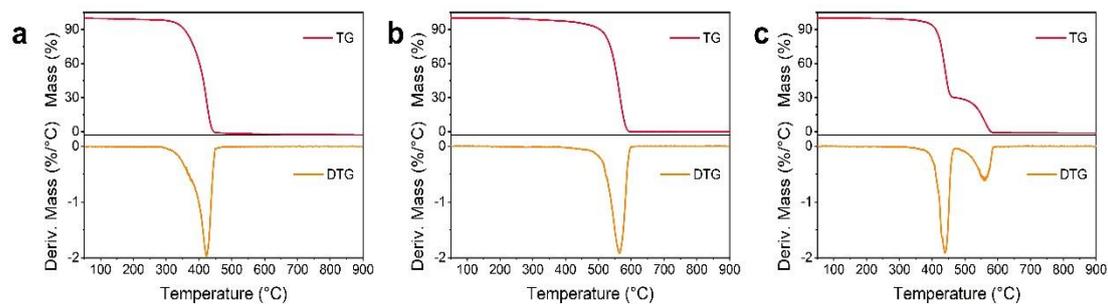
**Fig. S2** (a) SEM image and (b) diameter distribution of PTFE microparticles applied in this study



**Fig. S3** Optical and SEM images of pure SEBS and SPM microfibers with 10 wt% and 30 wt% PTFE loading



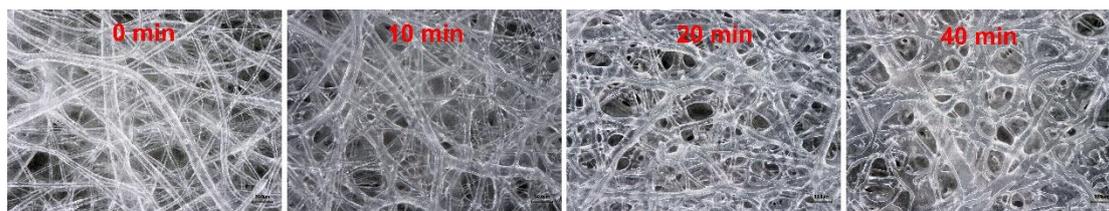
**Fig. S4** (a) FTIR spectra and (b) XRD patterns of pure SEBS fabric, PTFE microparticles and SPM fabric



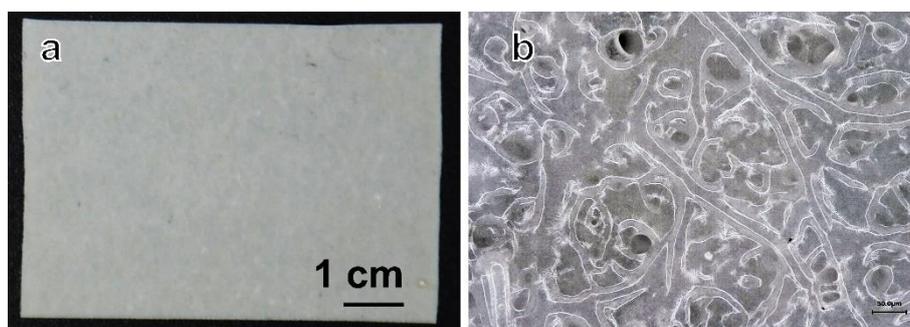
**Fig. S5** TGA curves of (a) SEBS, (b) PTFE and (c) SPM microfibers



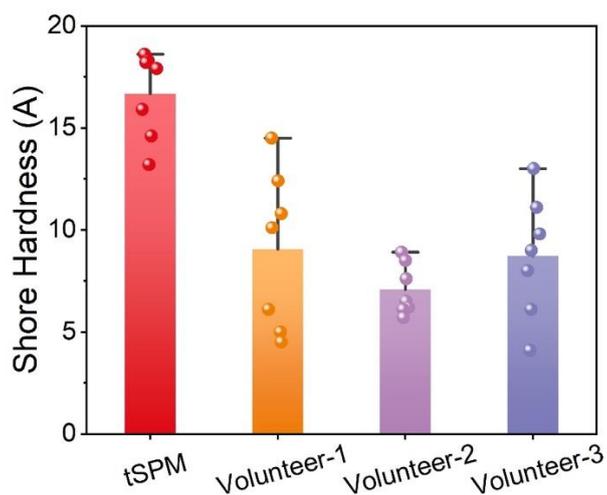
**Fig. S6** Digital photos of tSPM fabrics treated for different times under 150 °C



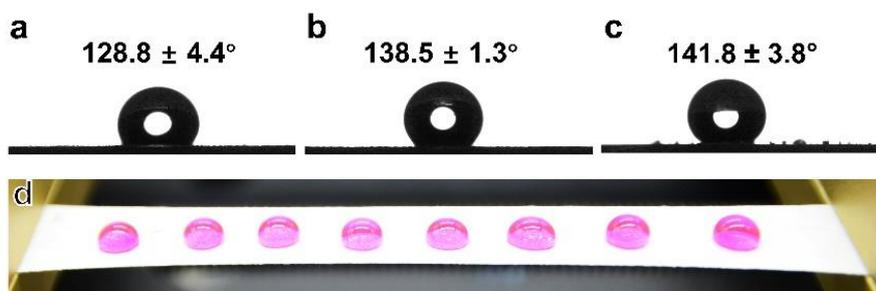
**Fig. S7** Optical microscopic images of tSPM fabrics treated for different times under 150 °C



**Fig. S8** (a) Digital and (b) optical images of tSPM fabric after thermal treatment for 60 min



**Fig. S9** Shore hardness of tSPM fabric, and skins of volunteer-1 (male, 28 years old), volunteer-2 (male, 24 years old) and volunteer-3 (female, 26 years old)



**Fig. S10** Water contact angles of (a) pure SEBS fabric, (b) tSPM fabric, (c) PTFE particles, and (d) digital photo of water droplets on tSPM fabric under a strain of 1000%

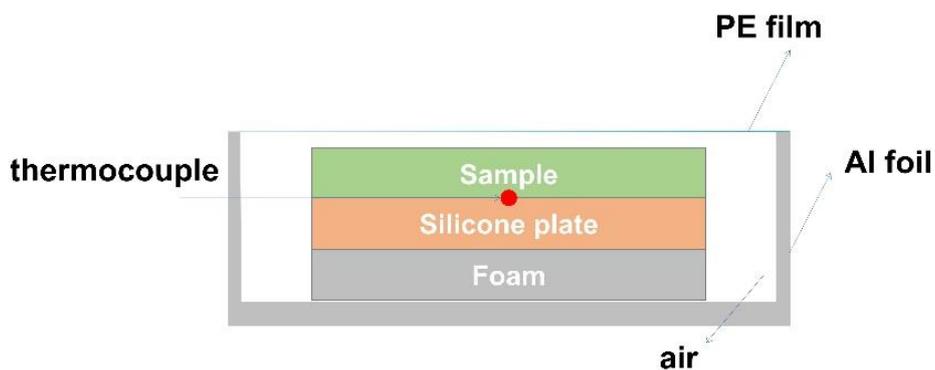


Fig. S11 Schematic of the set-up for radiative cooling tests

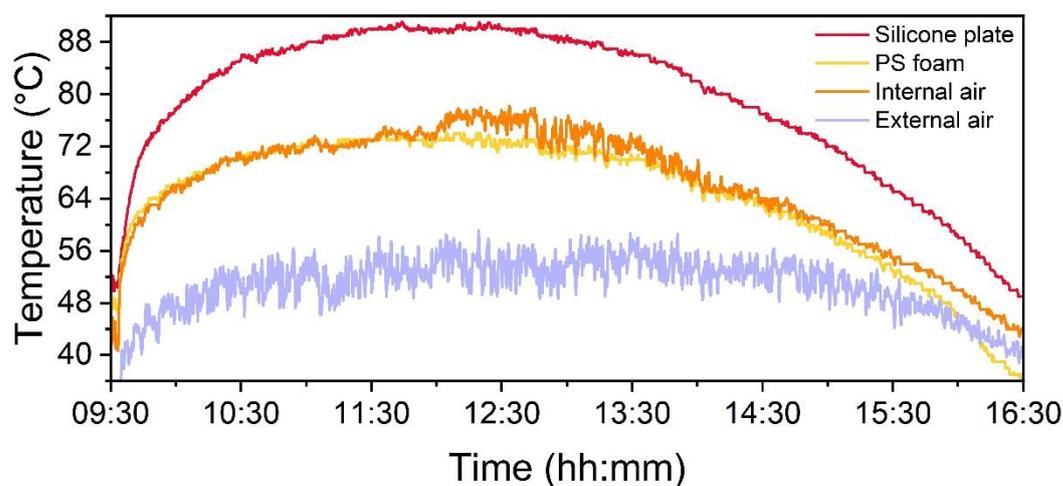


Fig. S12 Temperatures of silicone plate, PS foam and air inside/outside the PS box under direct sunlight irradiation

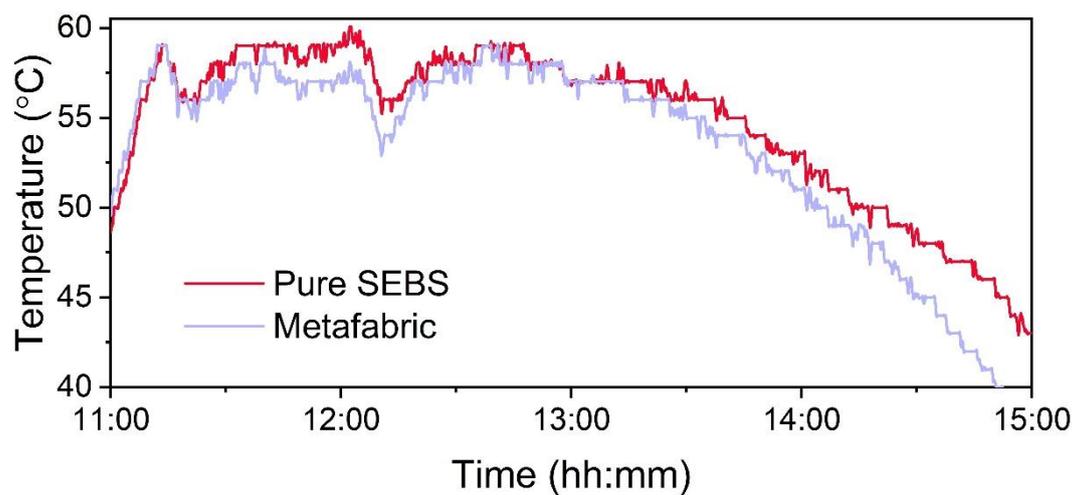


Fig. S13 Temperature comparison of pure SEBS microfibers and metafabric under passive cooling tests