

Supporting Information:

Electrospun PCL Patches with Controlled Fiber Morphology and Mechanical Performance for Skin Moisturization via Long-Term Release of Hemp Oil for Atopic Dermatitis

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The Supplementary Material include the following information:

- Figure S1. showing SEM images of PCL samples cross-section after freeze-fracture,
- Figure S2. showing the mechanical testing module,
- Figure S3. showing the gelatin-based skin model and ESEM image of the cast film,
- Figure S4. PCL patches applied on volunteers' forehead skin,
- Movie S1. showing mechanical testing of PCL fibers under a stereo microscope,
- Movie S2. showing the interaction between connected pPCL fibers during the tensile testing.

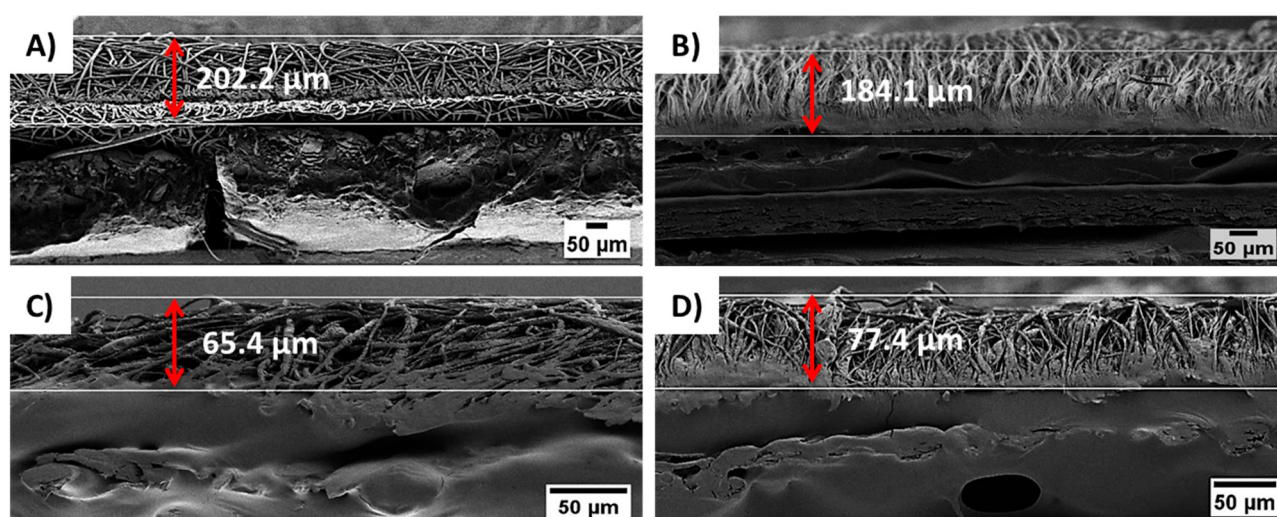


Figure S1. Cross-sectional SEM images of PCL samples after freeze-fracture: (A–B) sPCL and (C–D) pPCL random and aligned patches respectively.

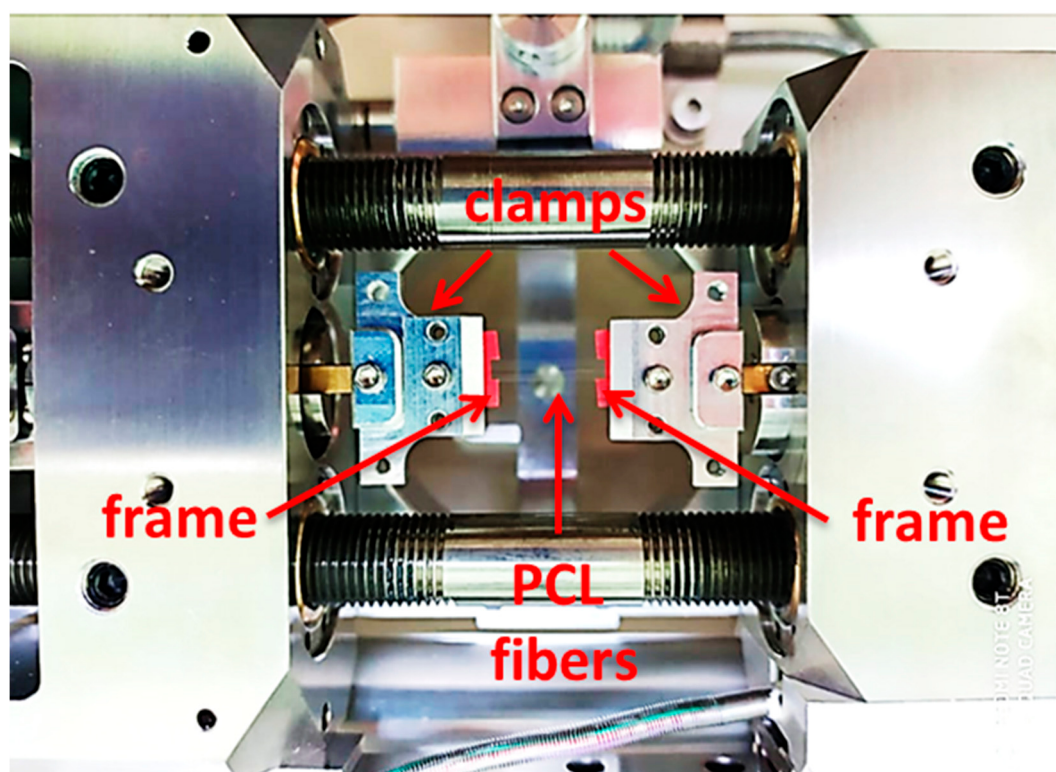


Figure S2. Mechanical testing module with tensile tested fibers.

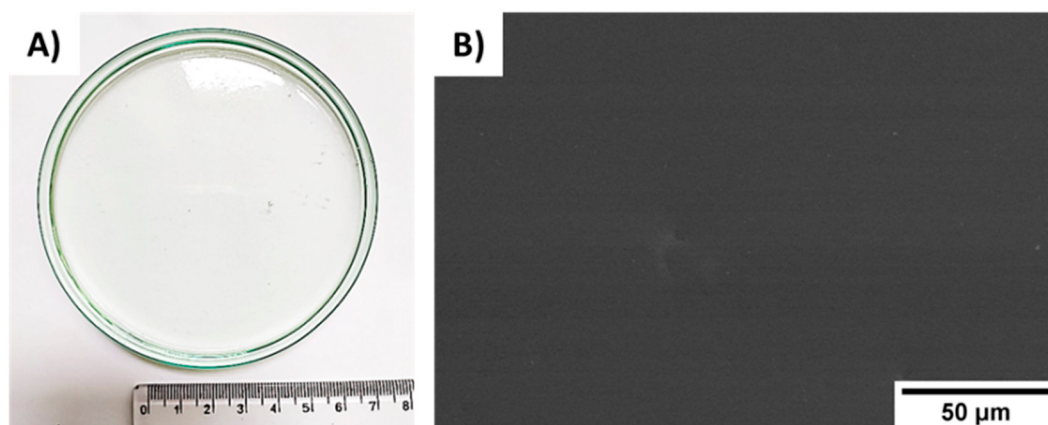


Figure S3. (A) Gelatin-based skin model cast in Petri-dish, utilized for oil spreading tests and (B) ESEM image of skin model topography.



Figure S4. PCL patches applied on the skin of volunteers' forearm.