**Original Article – Supplemental Digital Content**

**Advanced Concepts in Rheology for the Evaluation of Hyaluronic Acid-based Soft Tissue Fillers**

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**Figure SI 1.** Study of the cohesivity of gels under mild shear. (A) Schematic of the experiment, (B) images of the gels extruded in saline buffer before stirring (t = 0 s) and after the end of the experiment (t = 30 s), and (C) cohesivity scores of the fillers according to the 5-grade Cohesivity Scale. A 23 mg/mL solution of non-crosslinked 1.5 MDa HA was used as control.



**Figure SI 2.** Study of the mechanical resistance of gels under compression. (A) Schematics of experiment, (B) compression force profiles of gels (only volumizers are represented), and (C) compression forces values.



**Figure SI 3.** Rheological characterizations of the investigated gels. (A) Shear elastic modulus, G’ (B) phase angle and complex viscosity, (C) linear viscoelastic region, LVER, and (D) plot of G’ as a function of the applied stress. For improved clarity, only volumizers are represented (Stresses are represented in a logarithmic scale). The inset is the G’ plot in a linear scale.



**Figure SI 4.** Creep test to assess the Stretch score. For improved clarity, only fillers intended for superficial wrinkle filling are represented.