

Supporting Information

Facile Preparation of High Loading Filled PVDF/BaTiO₃ Piezoelectric Composites for Selective Laser Sintering 3D Printing

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1. The flowability of PVDF and PVDF/BaTiO₃ powder

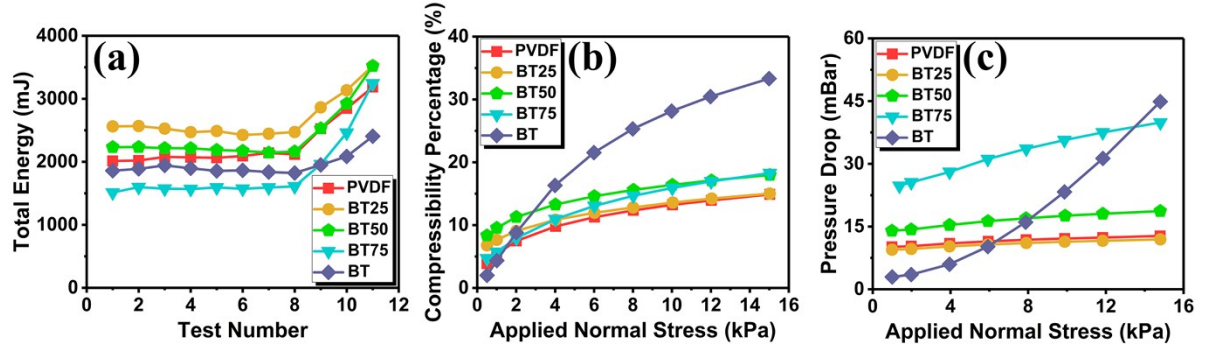


Fig. S1. Flowability test results of PVDF and PVDF/ BaTiO₃ powder: (a) test curves of stability and sensitivity to flow rate; (b) compressibility test curves; (c) permeability test curves.

2. The tensile properties of SLS parts

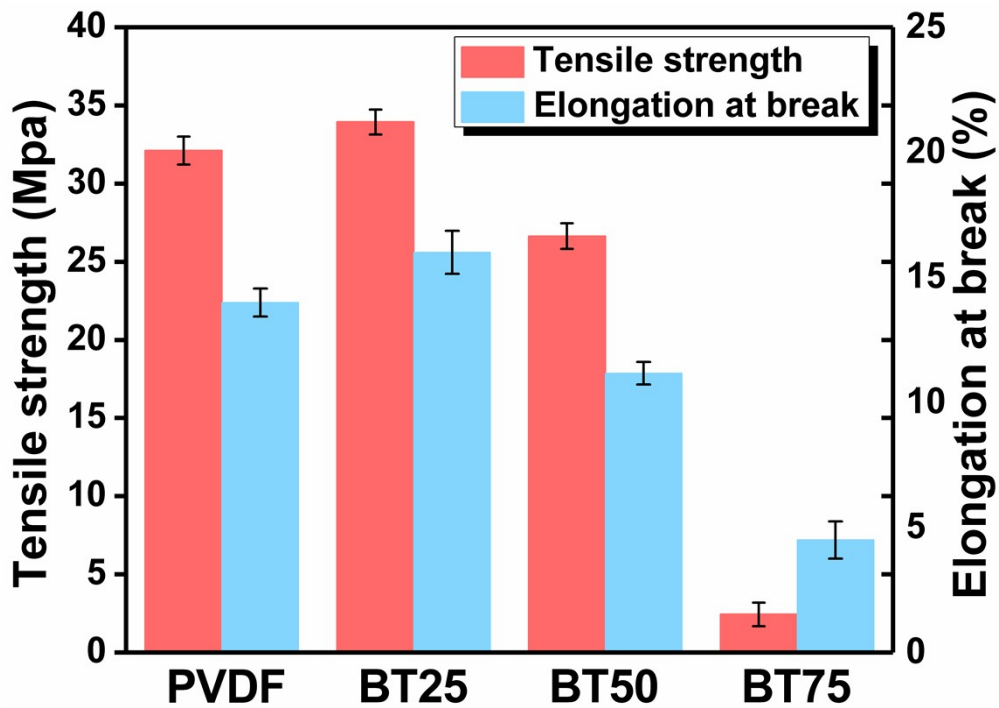


Fig. S2 The tensile strength and elongation at break of SLS parts.

3. The crystallization behaviors of the PVDF/BaTiO₃ composite powder

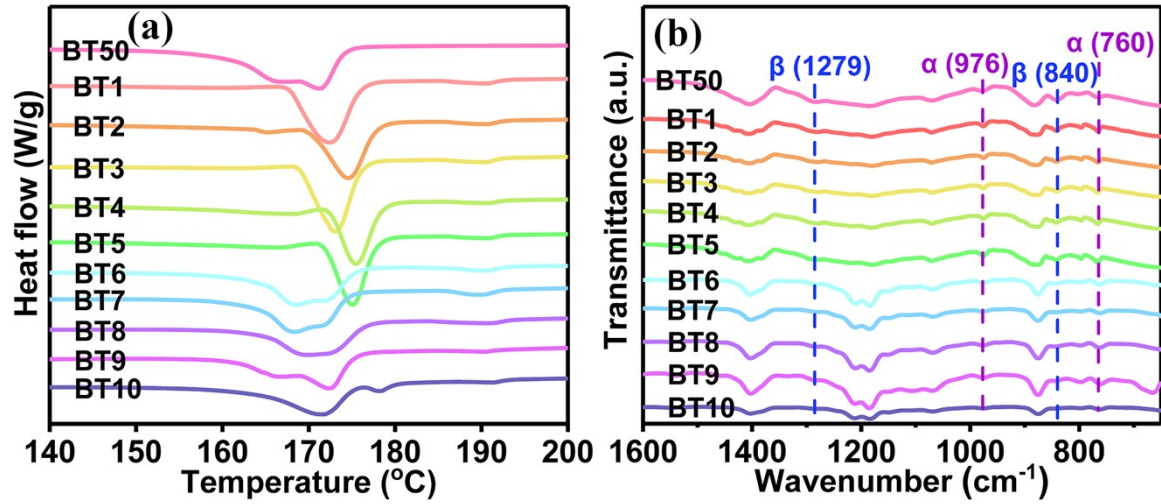


Fig. S3. (a) The DSC curves and (b) FT-IR spectra of PVDF/BaTiO₃ composites with different melting degree.

4. The ferroelectric properties of BT50 part

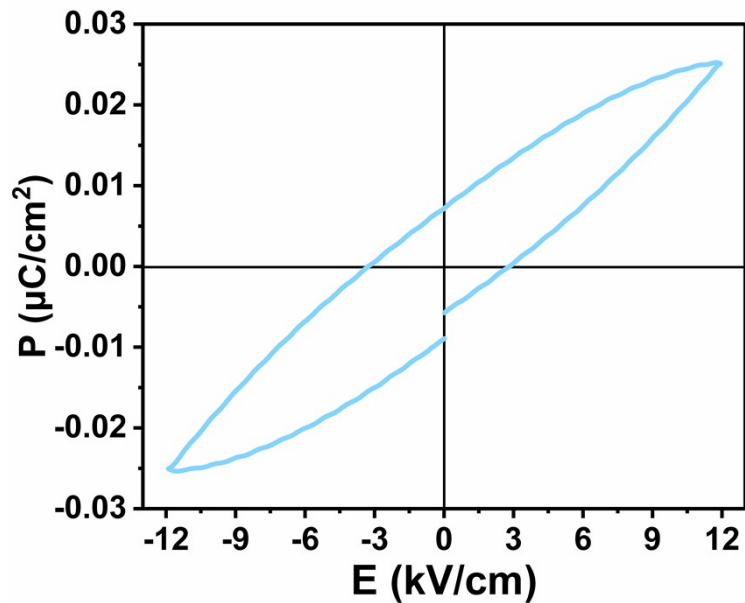


Fig. S4. The P-E hysteresis loop of BT50 part.

5. The piezoelectric performance of SLS parts and molded parts

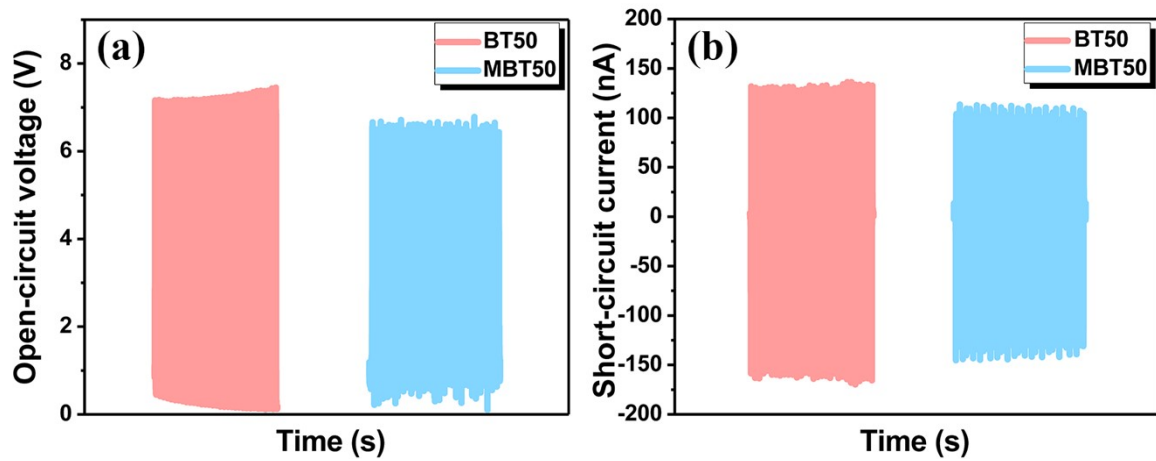


Fig. S5. (a) Open circuit voltage and (b) short circuit current of SLS parts and molded parts.

6. The output power of various SLS parts

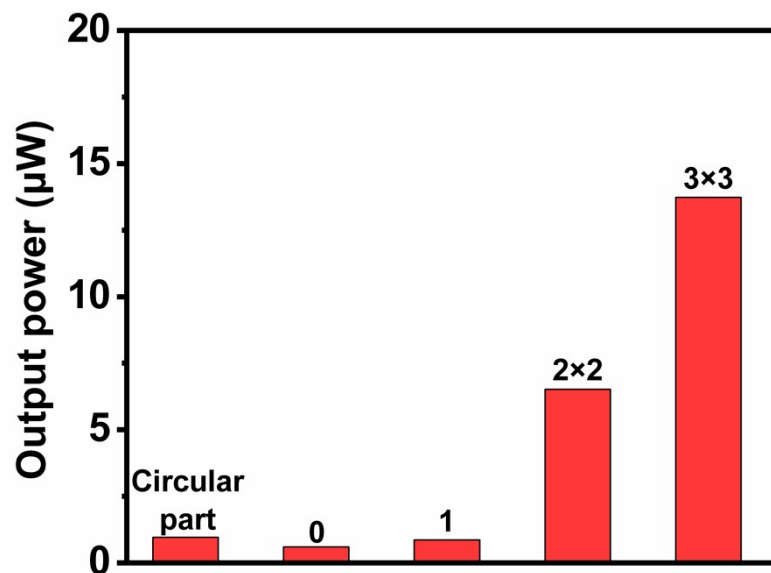


Fig. S6. The output power of various SLS parts as indicated.