## SUPPORTING INFORMATION

## **Outstanding Dielectric and Thermal Properties of Main Chain–Type**

## Poly(benzoxazine-co-imide-co-siloxane)-Based Cross-Linked Networks

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Figure S1. <sup>1</sup>H NMR spectra of *o*HPNI-oda-PDMS after various reaction time.



Figure S2. FT-IR spectra of *o*HPNI-oda after various thermal treatments at each designed temperature stage for 1 h.



**Highly Cross-linked Thermoset** 

Figure S3. Thermal behaviors of *o*HPNI-oda.



Figure S4. Dynamic mechanical spectra of poly(*o*HPNI-oda)



**Fig. S5.** Dielectric loss versus frequency of poly(*o*HPNI-oda) and poly(*o*HPNI-oda-PDMS) at room temperature.