

Supplements for

**Synergistic Enhancement of Mechanical, Thermal and Hydrogen
Barrier Properties of Nylon with PEI-GO-EVOH Nanocomposite
Coatings**

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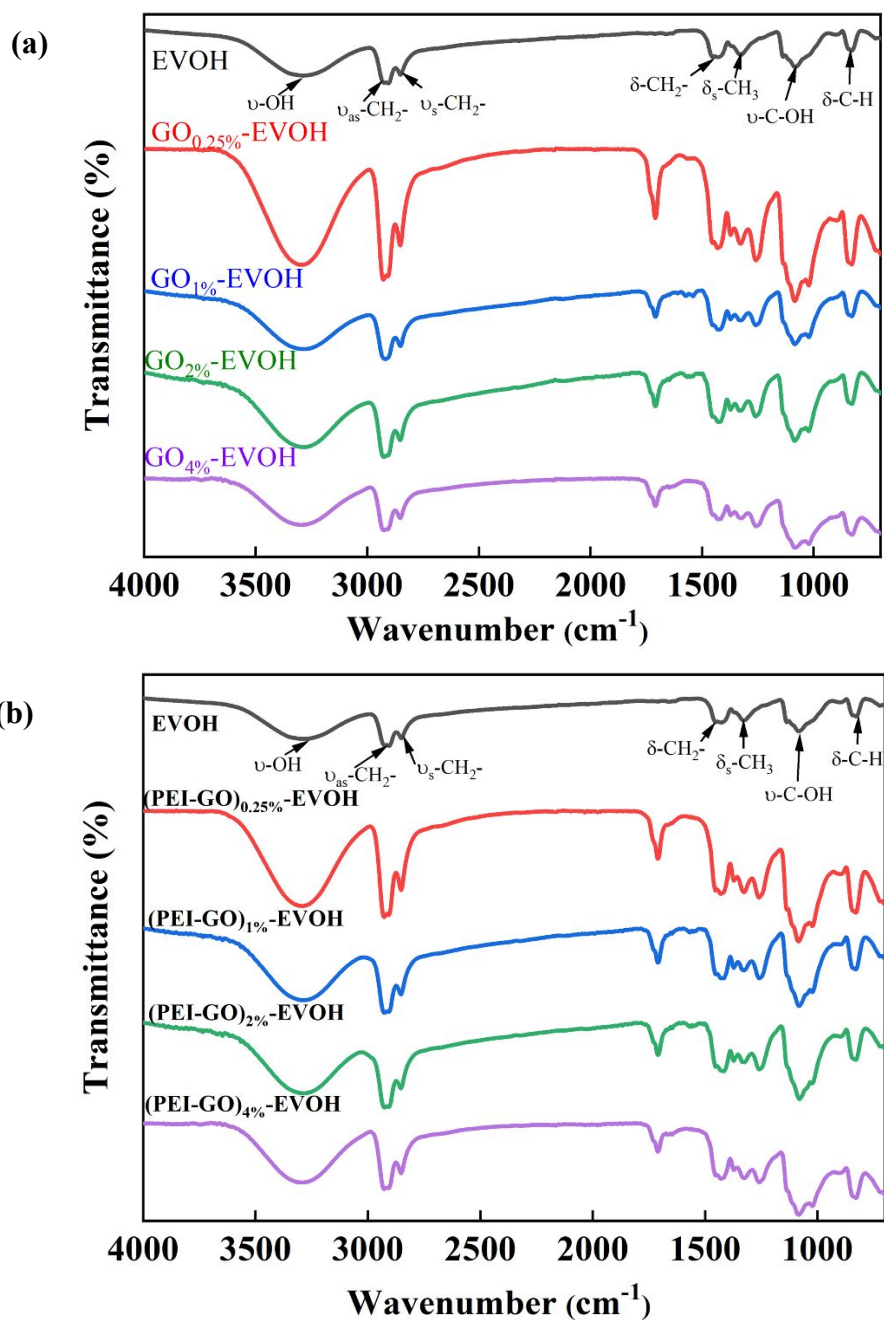


Figure S1. Infrared spectra of (a) GO-EVOH and (b) (PEI-GO)/EVOH composites with GO or PET-GO contents at 0.25, 1, 2, and 4 wt%, where ν denotes stretching with the subscripts *as* and *s* representing asymmetric and symmetric stretching, and δ is in plane bending vibrations, respectively. The spectrum of pure EVOH is also included for comparison.

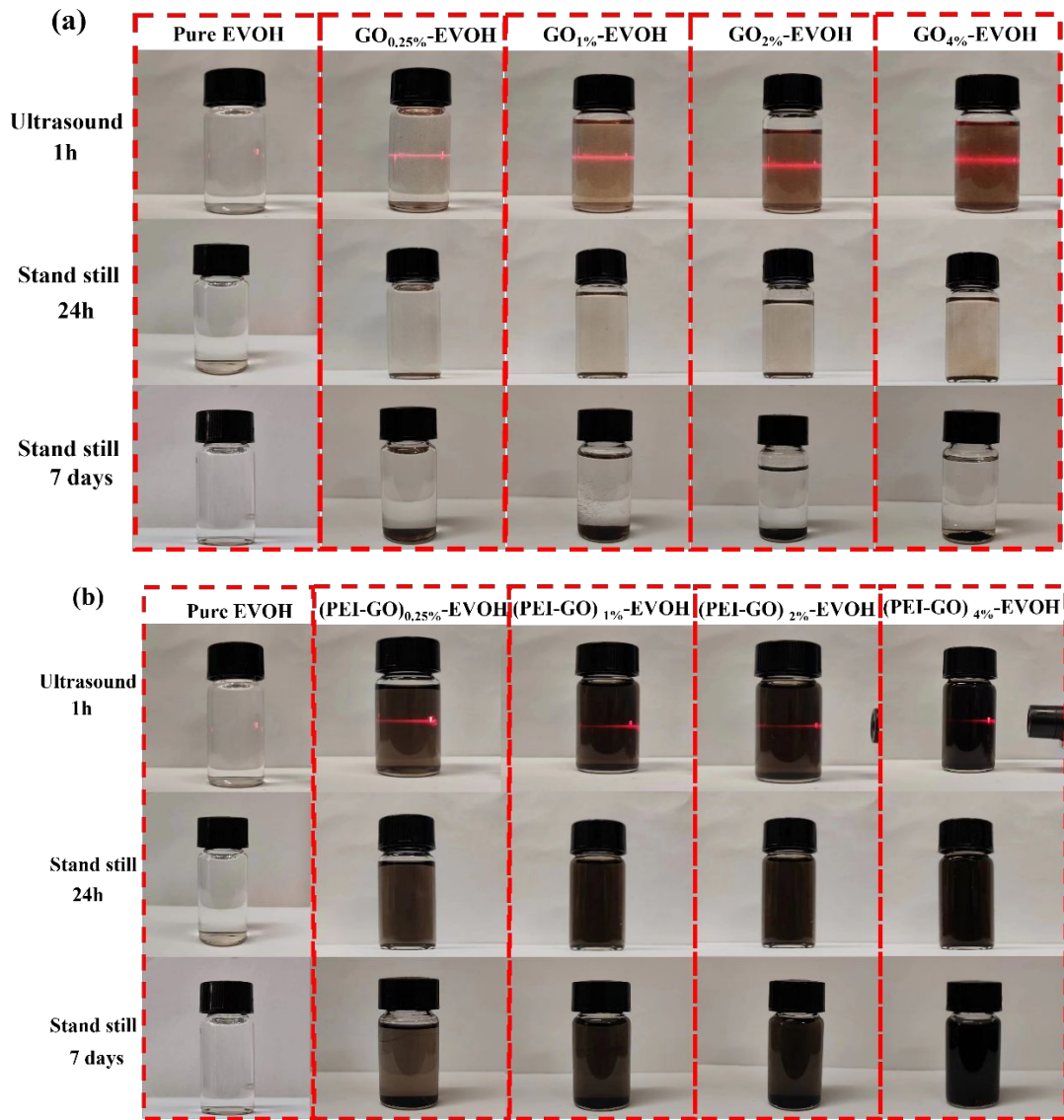


Figure S2. State of **(a)** GO-EVOH and **(b)** (PEI-GO)-EVOH coating stock solutions after ultrasonication and standing.

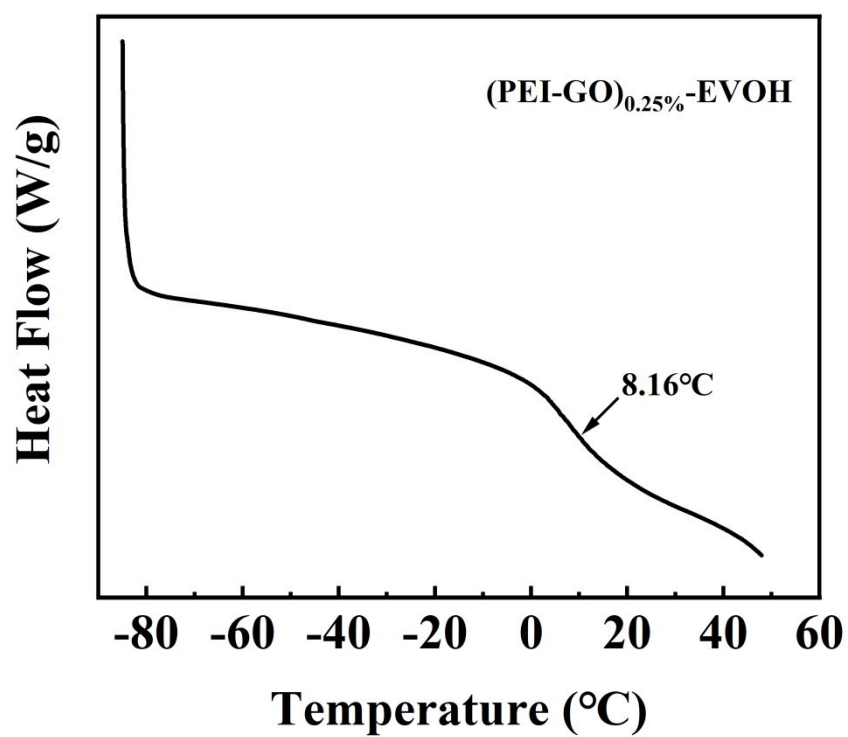


Figure S3. DSC curve of (PEI-GO)_{0.25%}-EVOH at -20°C