

Figure S1 shows the temperature dependences of the storage modulus E' , loss modulus E'' and loss tangent $\tan \delta$ measured at 10Hz and a heating rate of 2 °C/min for HDPE/nPW and HDPE/iPW with PW contents of 10w% and 5w%.

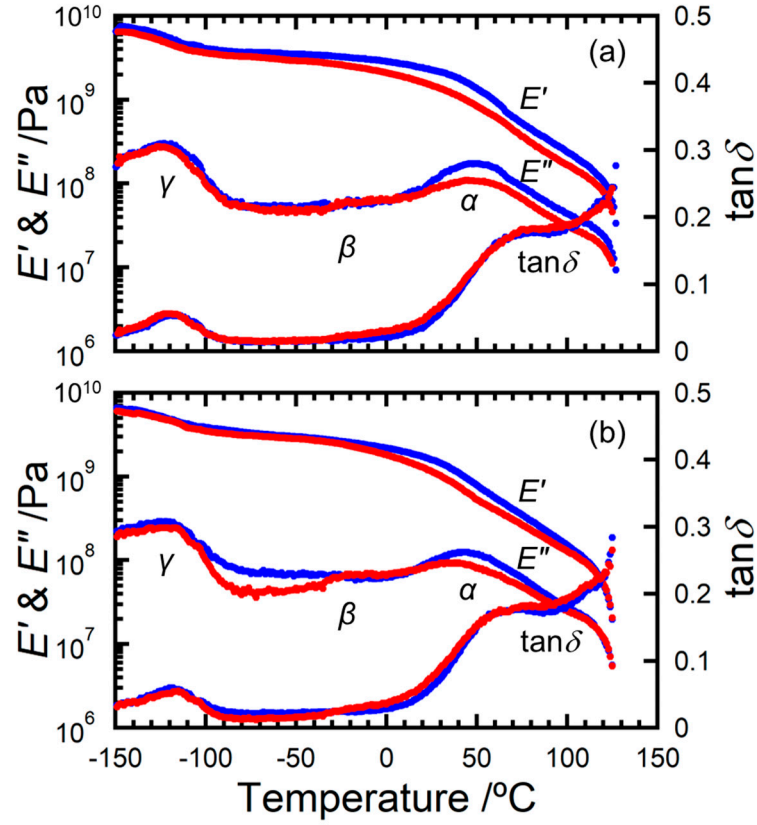


Figure S1. Dynamic viscoelastic spectra of (a) HDPE/nPW (95w/5w) (blue) and HDPE/iPW (95w/5w) (red) and (b) HDPE/nPW (90w/10w) (blue) and HDPE/iPW (90w/10w) (red).

Figure S2 shows the stress-strain curves measured at an elongation speed of 10 mm/min for HDPE/iPW blends. The stress values were normalized by the content of HDPE.

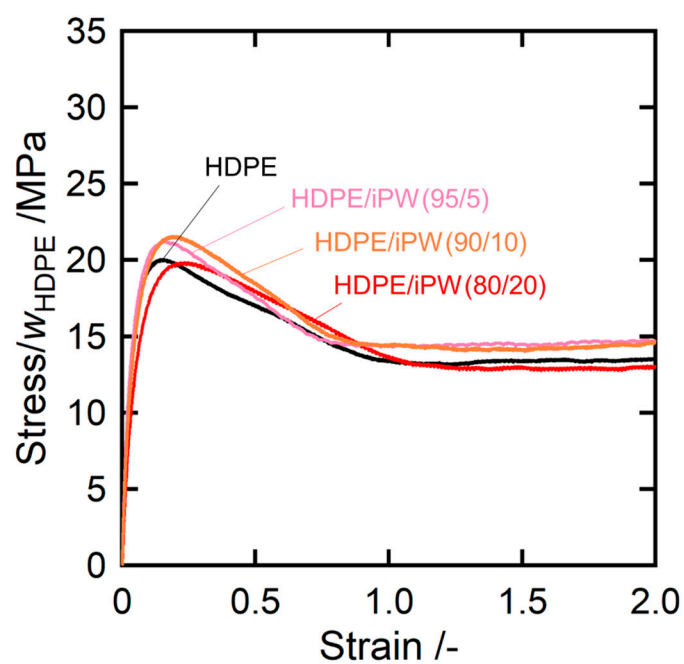


Figure S2. Stress–strain curves of initial HDPE and HDPE/iPW. The stress values are divided by the weight fraction of HDPE.