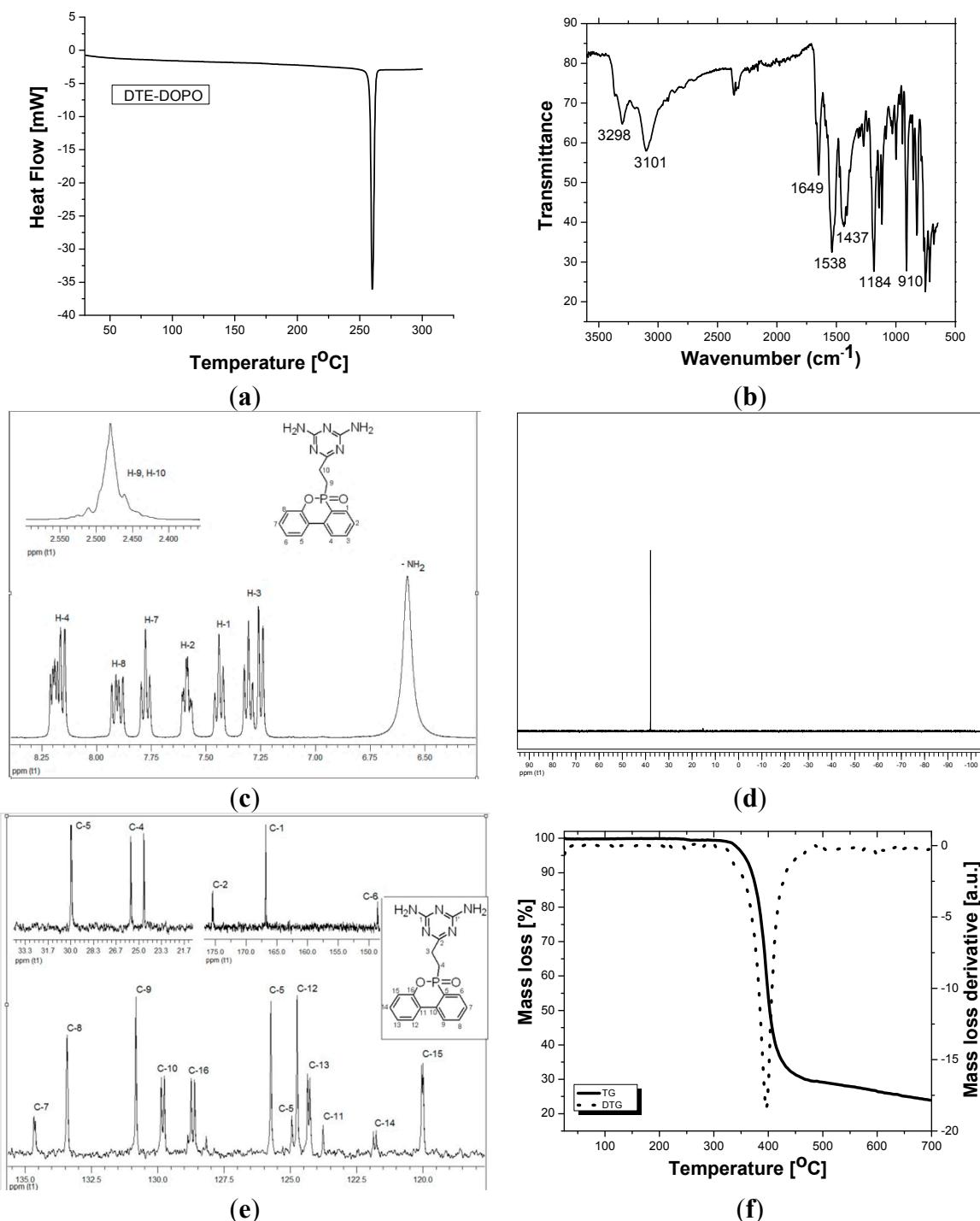
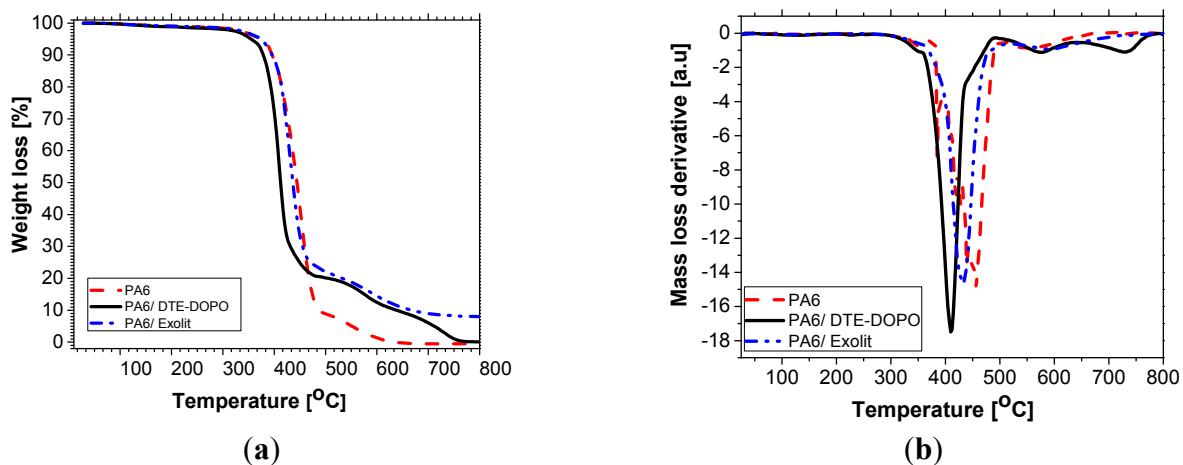


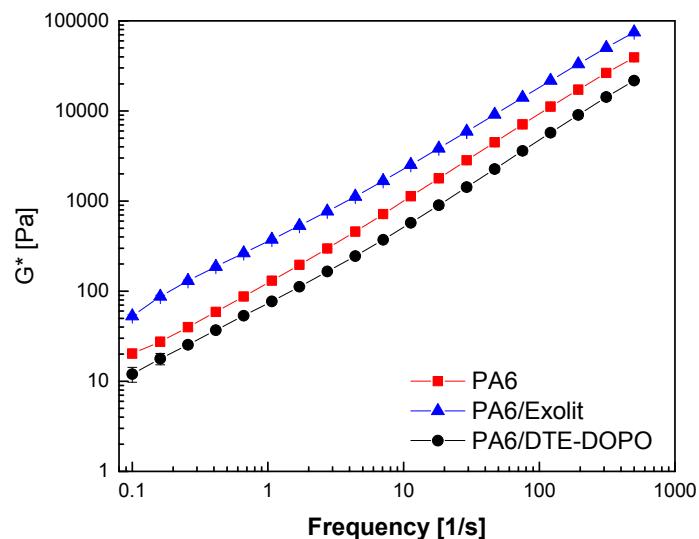
# Supplementary Information



**Figure S1.** DSC (a); FTIR (b);  $^1\text{H}$  NMR (c);  $^{13}\text{C}$  NMR (d);  $^{31}\text{P}$  NMR spectra (e); and TGA curves in nitrogen (f) of DTE-DOPO.



**Figure S2.** TGA (a) and DTG curves (b) of neat PA6 and formulations of PA6 and FRs in air atmosphere.



**Figure S3.** Complex modulus ( $G^*$ ) of PA6 and PA6/FR formulations at a constant strain of 1% and temperature of 250 °C.

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