

Supplementary Information

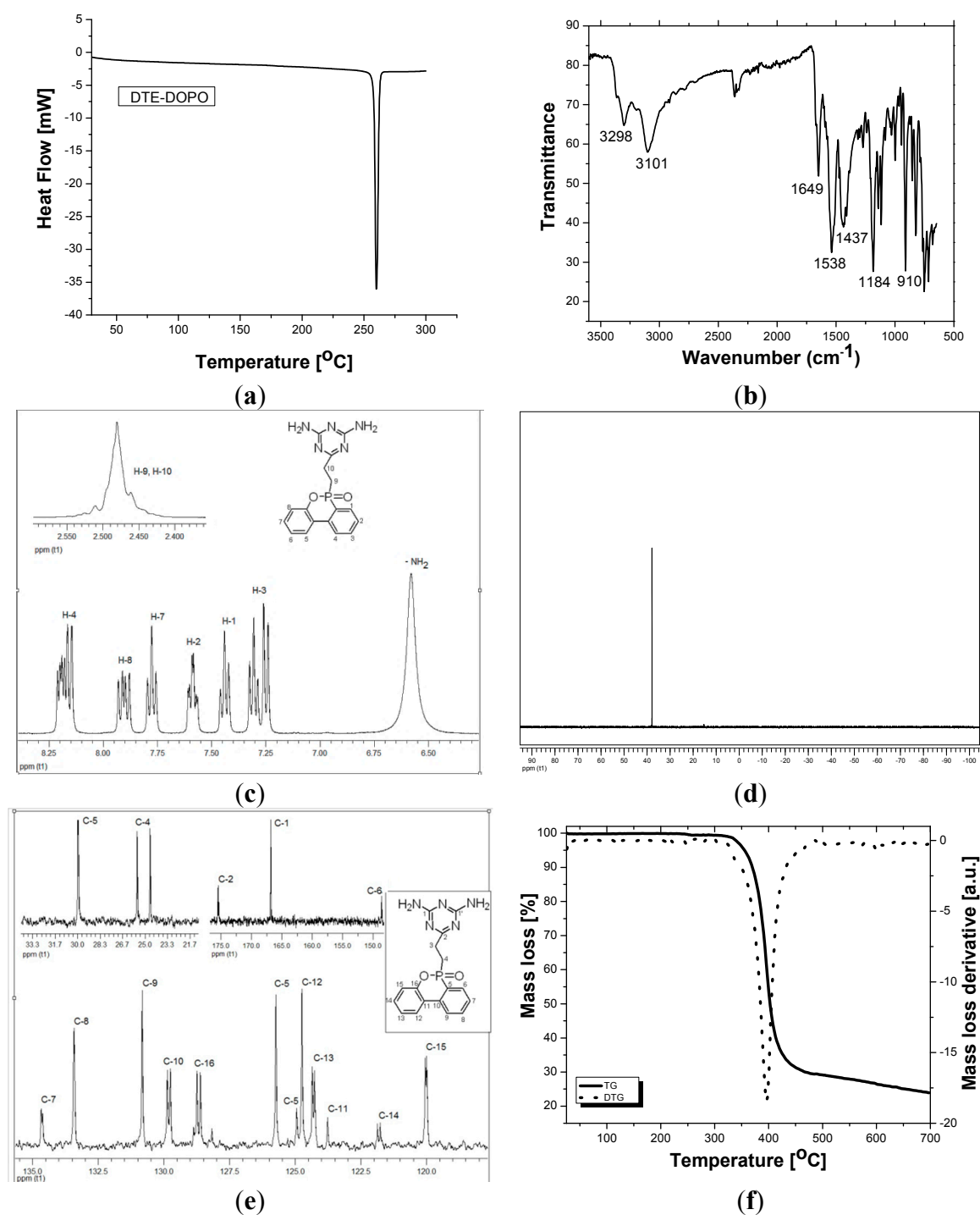


Figure S1. DSC (a); FTIR (b); ^1H NMR (c); ^{13}C NMR (d); ^{31}P NMR spectra (e); and TGA curves in nitrogen (f) of **DTE-DOPO**.

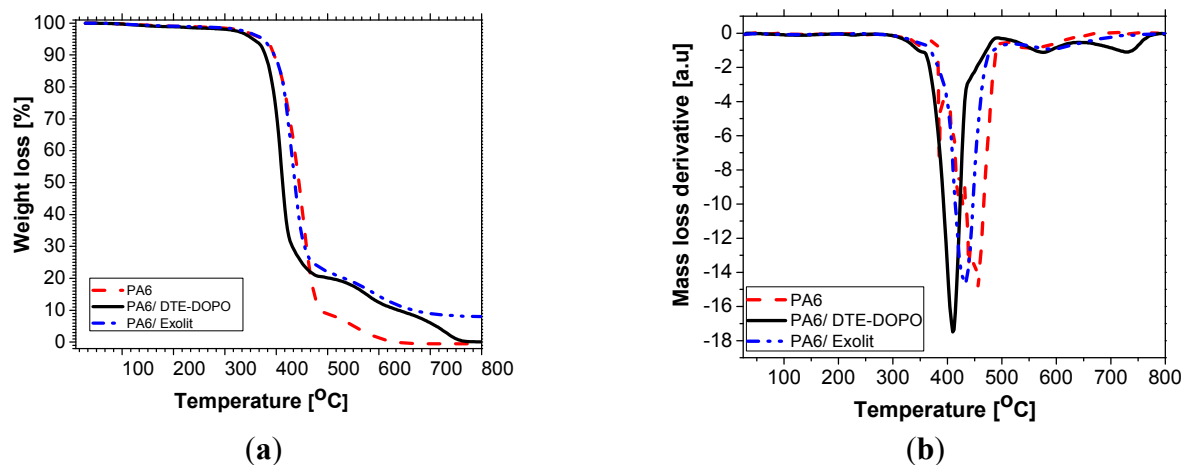


Figure S2. TGA (a) and DTG curves (b) of neat PA6 and formulations of PA6 and FRs in air atmosphere.

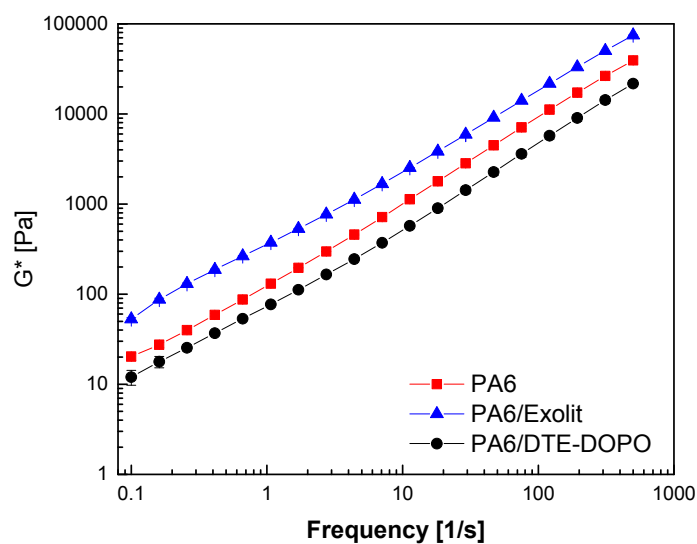


Figure S3. Complex modulus (G^*) of PA6 and PA6/FR formulations at a constant strain of 1% and temperature of 250 °C.