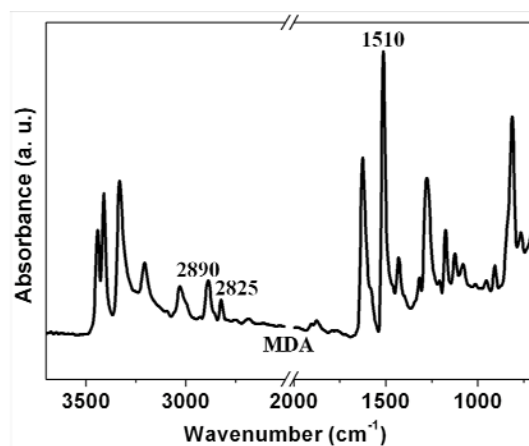


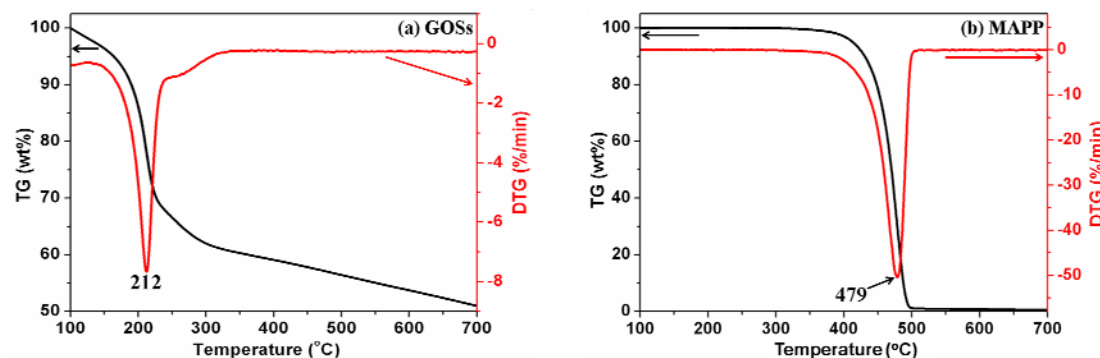
*Supplementary Information for*

# **Polypropylene-grafted graphene oxide sheets as multifunctional compatibilizers for polyolefin-based polymer blends**

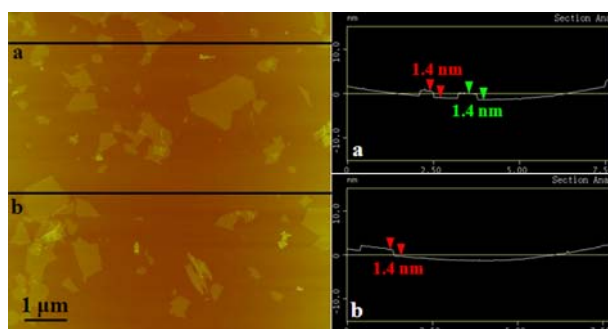
Yewen Cao, Jiachun Feng\* and Peiyi Wu



**Fig. S1** FTIR spectrum of MDA.



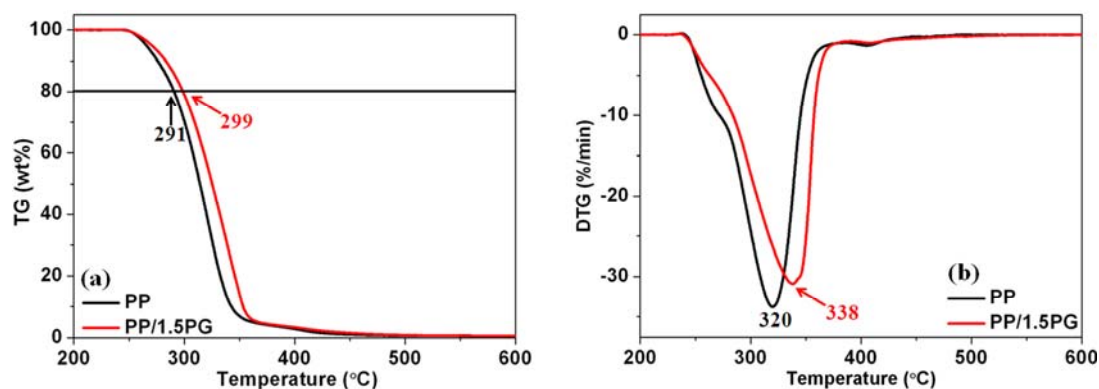
**Fig. S2** TG and DTG curves for (a) GOSs and (b) MAPP.



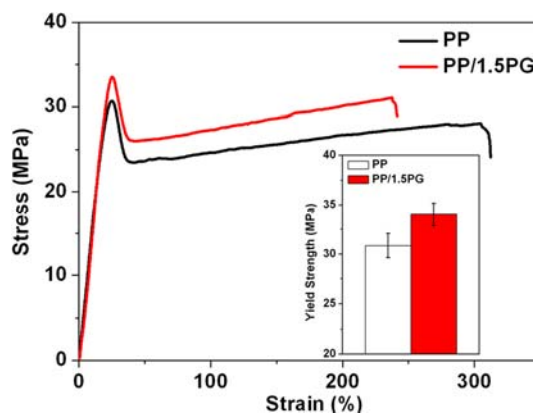
**Fig. S3** AFM image (left) and height profiles (right) of GOSs.



**Fig. S4** Photograph of neat PP.



**Fig. S5** (a) TG and (b) DTG traces for neat PP and PP/1.5PG.



**Fig. S6** Typical stress-strain curves for neat PP and PP/1.5PG. The inset is the yield strength values of neat PP and PP/1.5PG.