[Electronic Supplementary Information]

Poly(propylene)-grafted thermally reduced graphene oxide and its compatibilization effect on poly(propylene)-graphene nanocomposites

Song Ho Kim[a,b], Kyunghoon Kim[b] and O Ok Park[a,*]

[a]Department of Chemical and Biomolecular Engineering (BK21+ graduate program), Korea Advanced Institute of Science and Technology (KAIST), 291 Daehak-ro, Yuseong-gu, Daejeon 34141, Republic of Korea.

[b]Lotte Chemical Research Institute, 115 Gajeongbuk-ro, Yuseong-gu, Daejeon 34110, Republic of Korea

*E-mail: oopark@kaist.ac.kr (OOP)

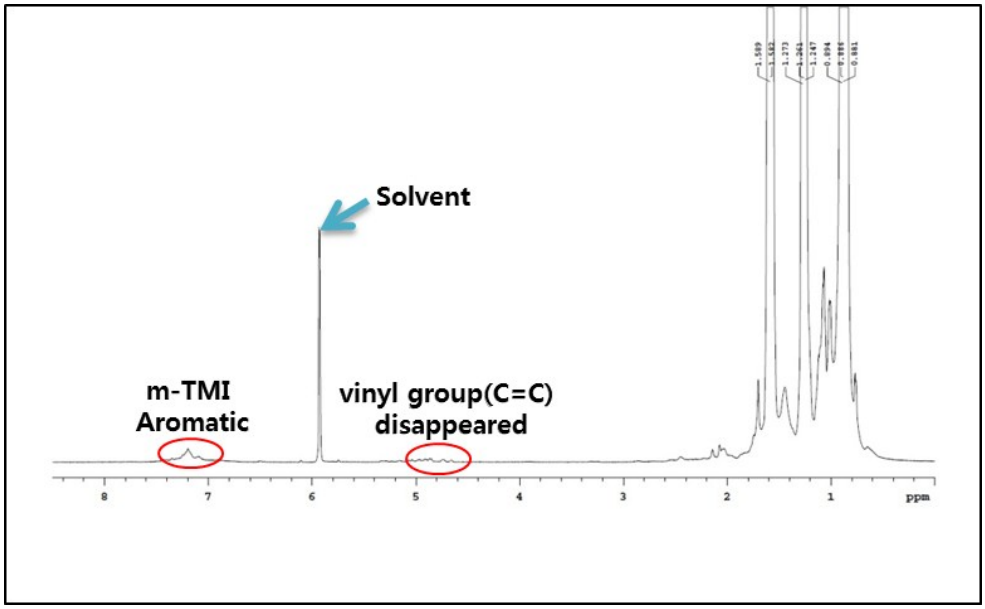

Figure S1. 1H-NMR Spectra of PP-g-m-TMI.

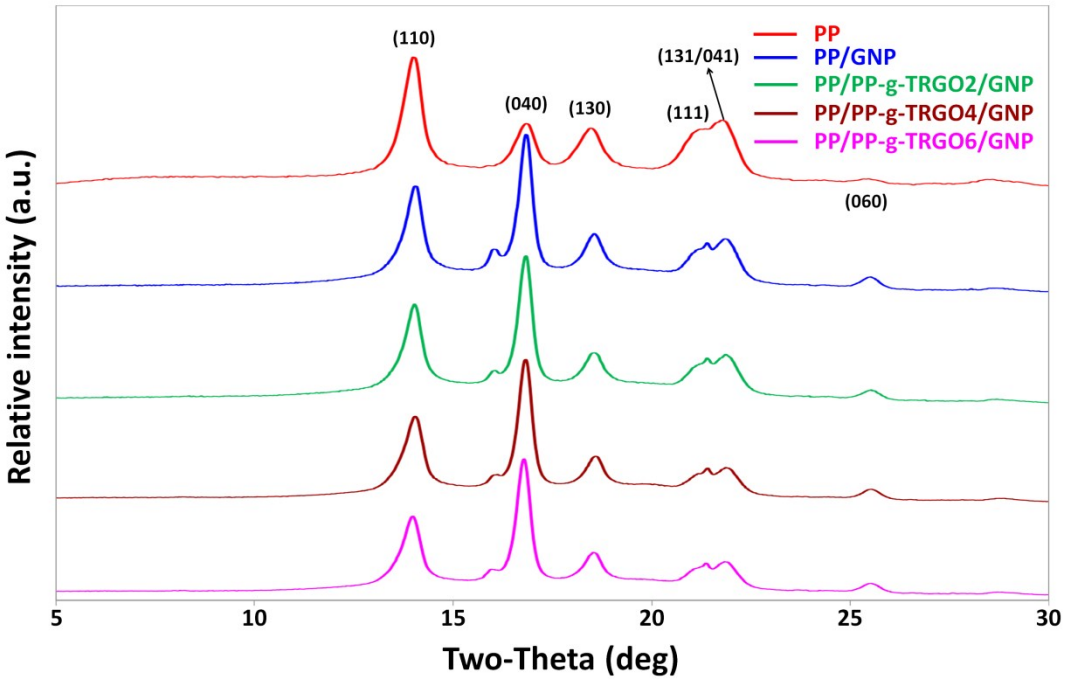

Figure S2. XRD patterns of PP, PP/GNP, PP/PP-g-TRGO2/GNP, PP/PP-g-TRGO4/GNP and PP/PP-g-TRGO6/GNP nanocomposites with GNP (1.0wt.%) and PP-g-TRGO2/4/6 (0.1wt.%).

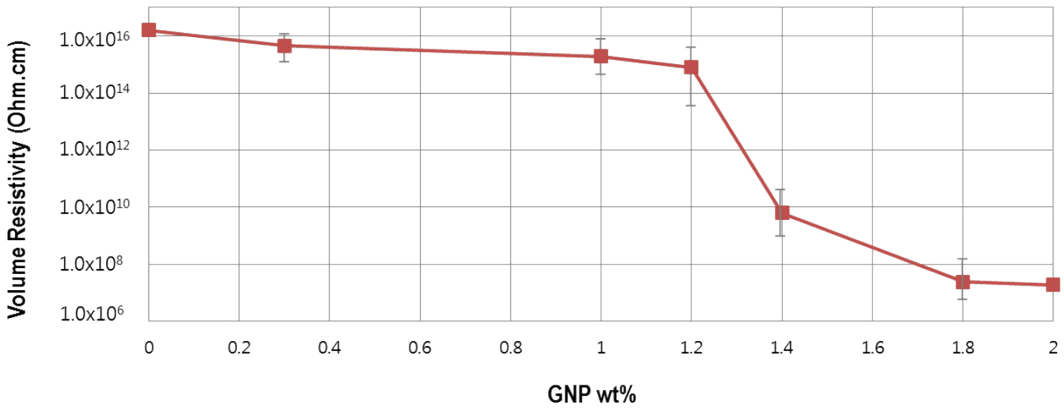

Figure S3. Volume resistivity of PP/GNP nanocomposites.