

Supporting Information

Preparation of Self-healing Polyurethane/Functionalized Graphene Nanocomposite as an Electro-Conductive One Part Adhesive

Farzaneh Hashemi Nasr^a, Mehdi Barikani^{*,b} Mehdi Salehirad^a

^a *Chemistry and Process Department, Niroo Research Institute, P.O. Box 1468613113, Tehran, Iran.*

^b *Department of Polyurethane and Nanopolymers, Iran Polymer and Petrochemical Institute, P.O. Box
14965/115, Tehran, Iran.*

M.Barikani@ippi.ac.ir

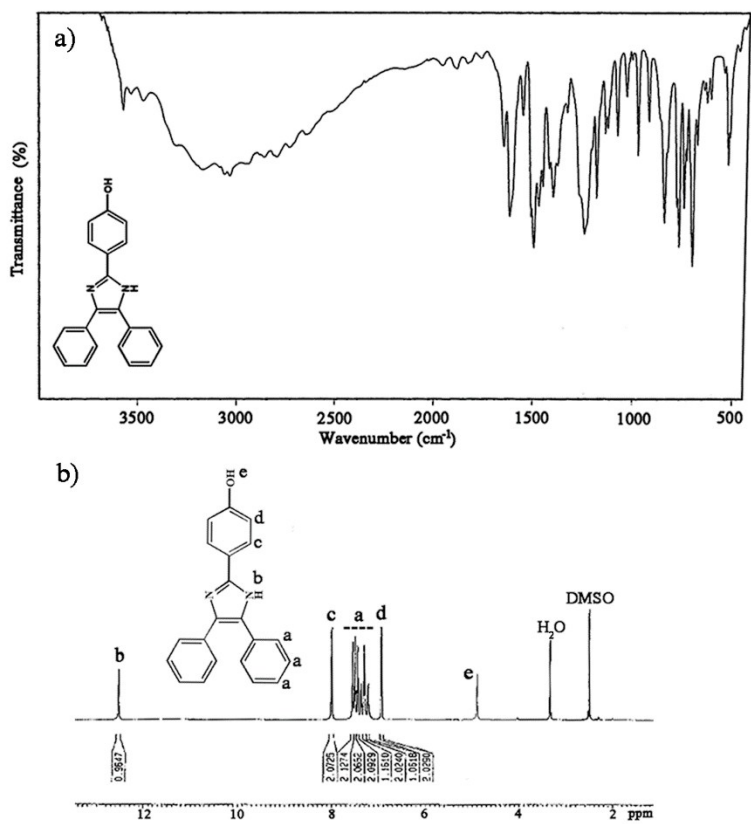


Fig. S1. (a) FT-IR and (b) ¹H NMR spectra of DIP.

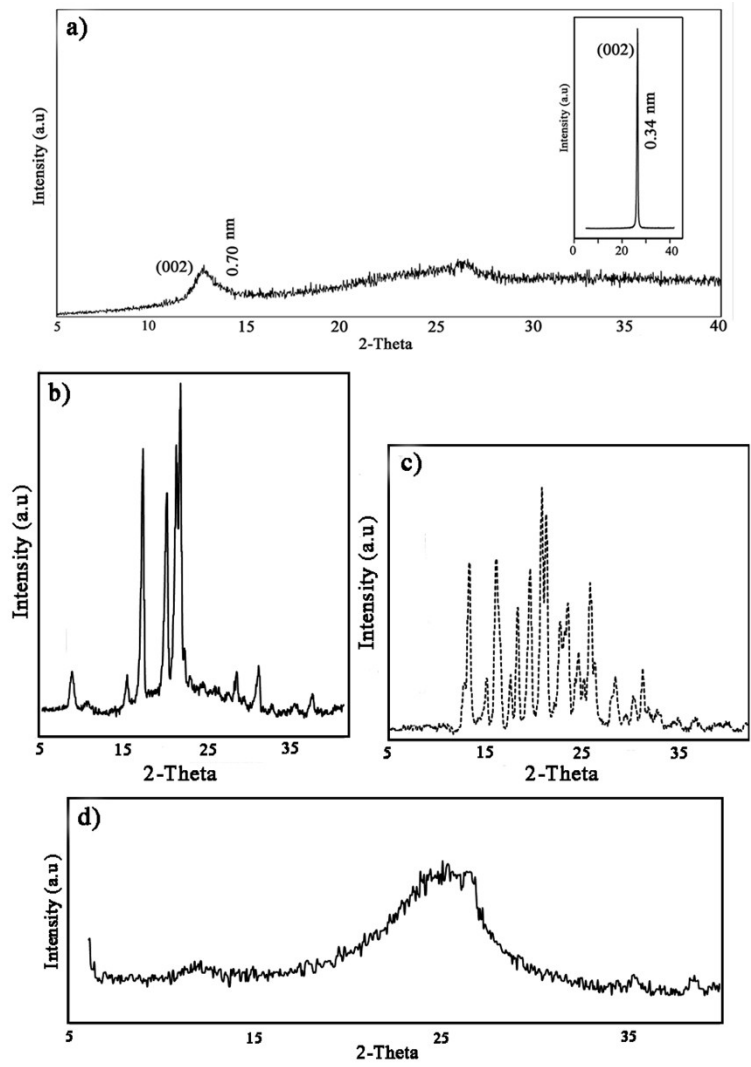


Fig. S2. XRD patterns of (a) GO, (b) DIP-g-GO, (c) DIP and (d) DIP-g-rGO.

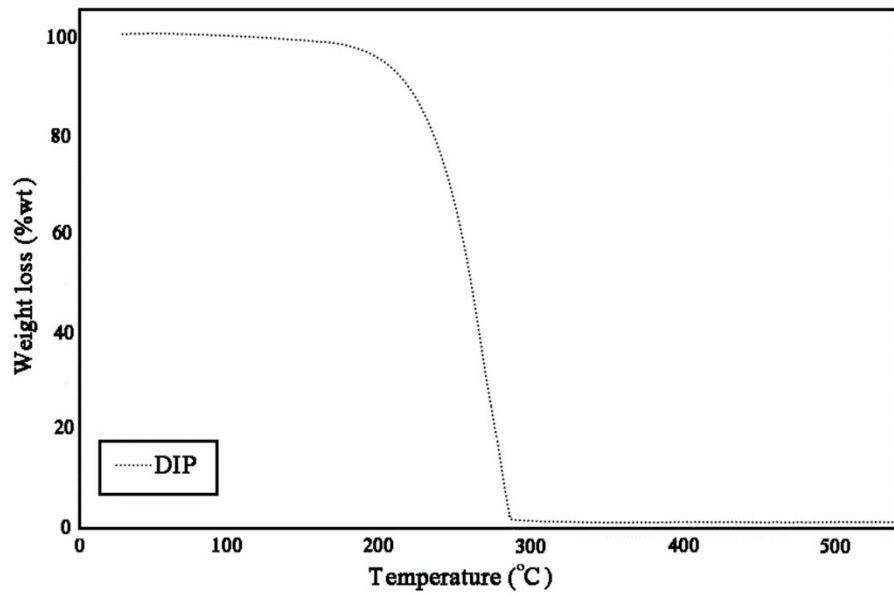


Fig S3. TGA thermogram of DIP.

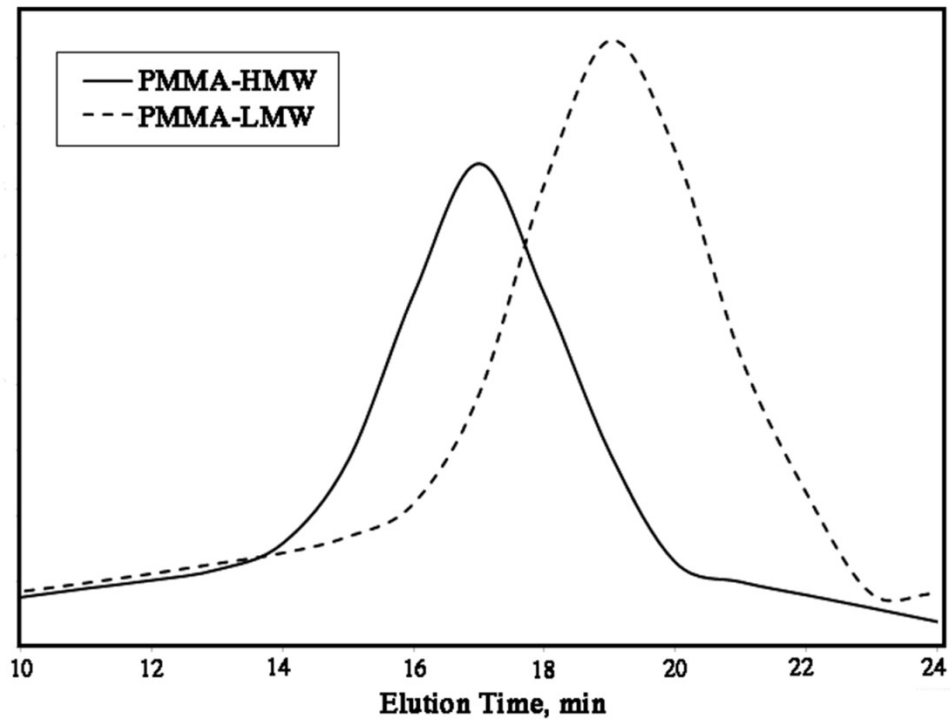


Fig. S4. GPC curves of PMMA (HMW and LMW).

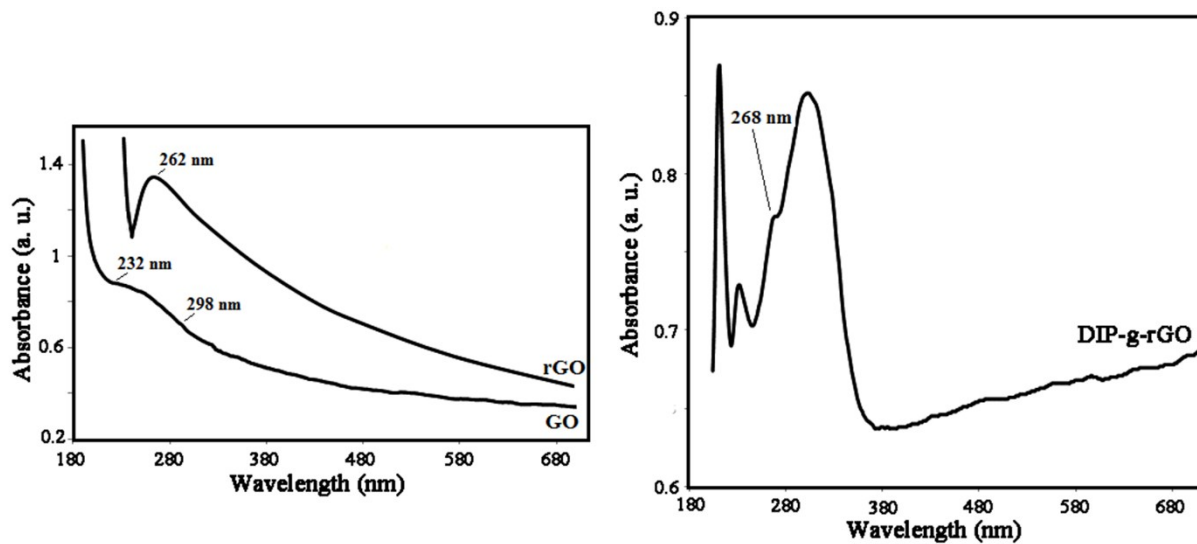


Fig. S5. UV-Vis spectra of GO, rGO and DIP-g-rGO.