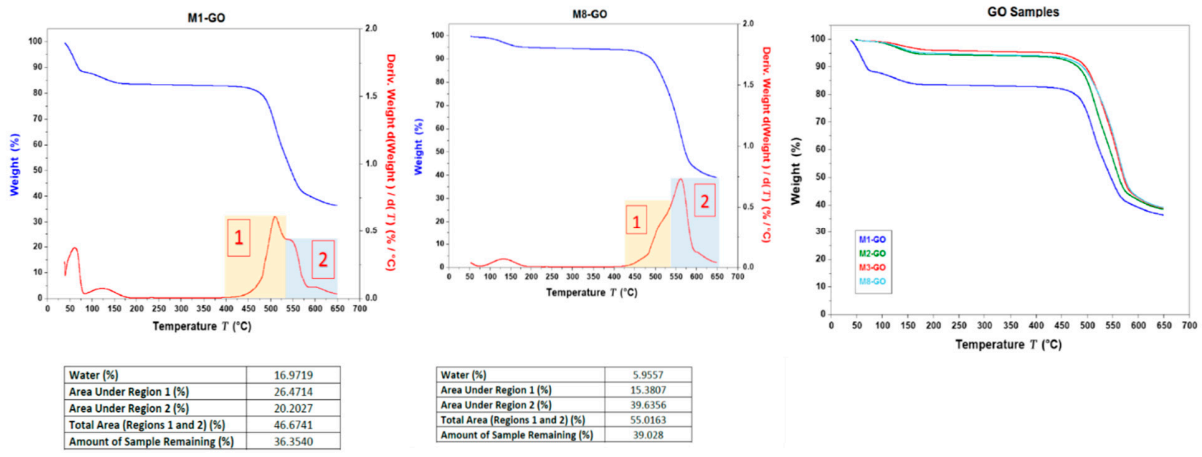
Supplementary Material

Enhanced fouling resistance and antibacterial properties of novel graphene oxide-arabic gum polyethersulfone membranes



Water (%)	16.9719
Area Under Region 1 (%)	26.4714
Area Under Region 2 (%)	20.2027
Total Area (Regions 1 and 2) (%)	46.6741
Amount of Sample Remaining (%)	36.3540

Water (%)	5.9557
Area Under Region 1 (%)	15.3807
Area Under Region 2 (%)	39.6356
Total Area (Regions 1 and 2) (%)	55.0163
Amount of Sample Remaining (%)	39.028

Figure 1. TGA and DTGA thermograms for M1 neat PES (a), M8 PES/GO (b) and TGA thermograms overlay for selected PES/GO and neat membranes.

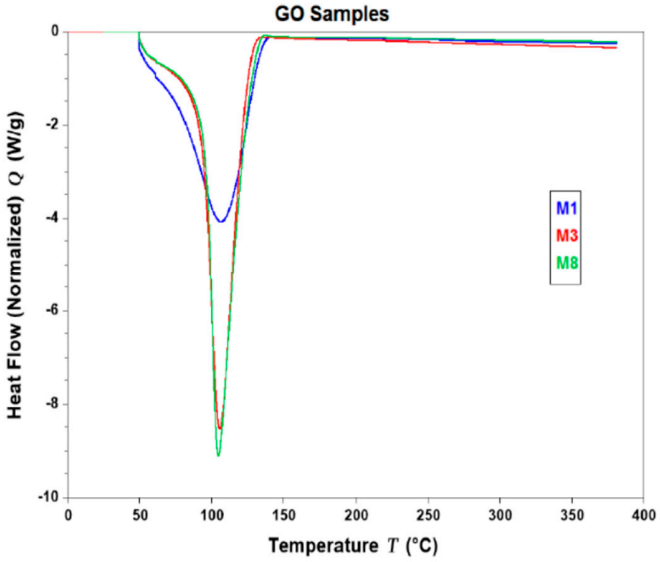


Figure S2. DSC curve overlay for selected PES/GO and neat membranes.

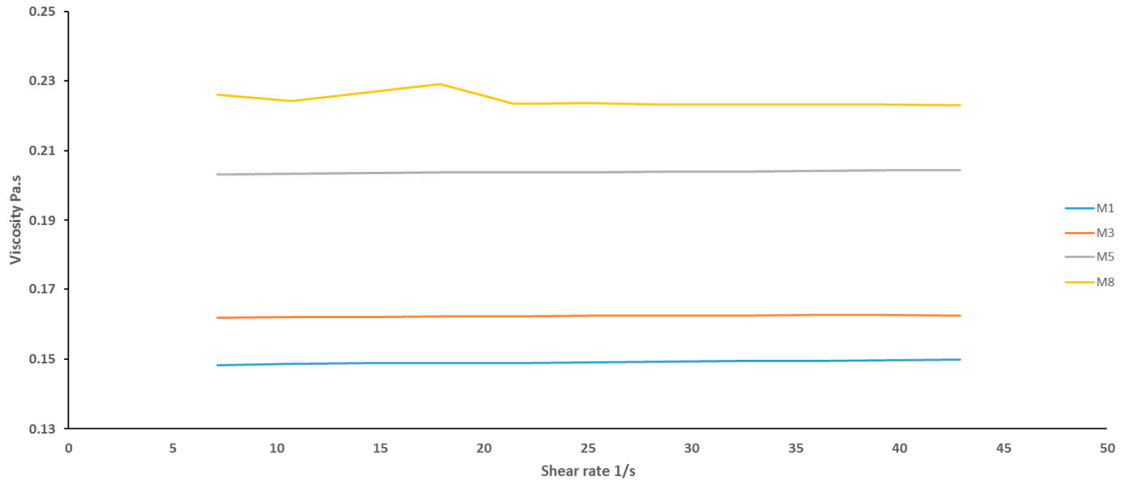


Figure S3. Viscosity as a function of shear rate plotted for selected casting solutions for neat PES and selected PES/GO membranes.

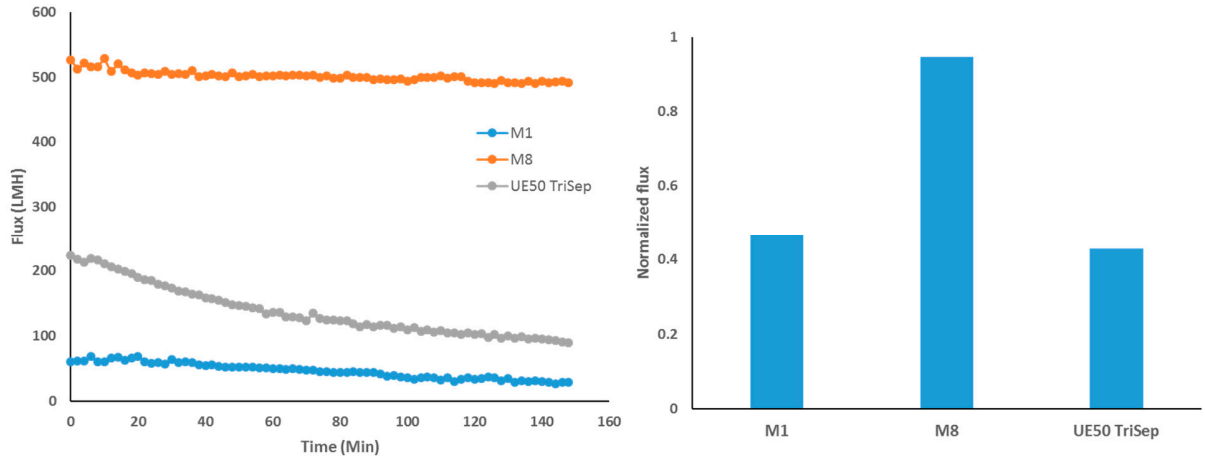


Figure S4. Graph showing flux readings for filtration of real TSE for selected fabricated membranes and the UF commercial membrane (**a**) and the normalized flux for each of the three membranes calculated as final reading at the end of filtration over initial reading at the beginning of filtration test (**b**).

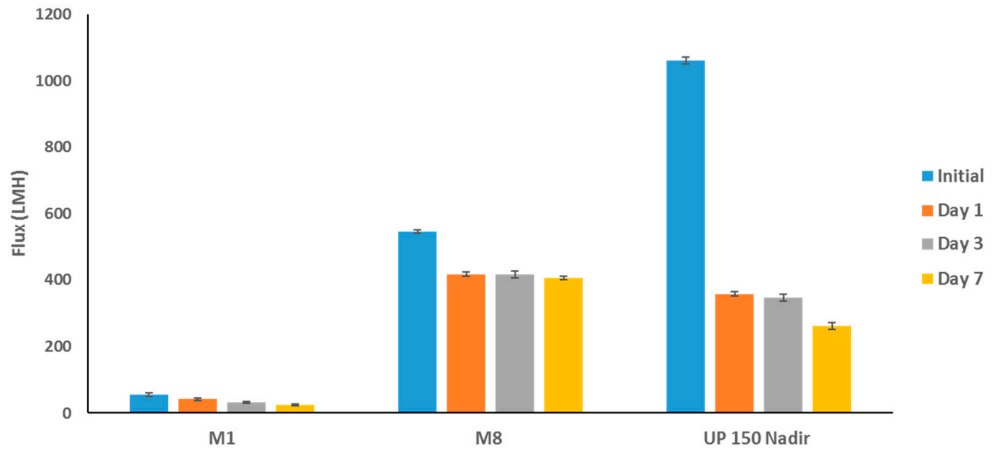


Figure S5. Membrane fluxes before and during incubation with real TSE at different time points.