

Supplementary Information

Preparation, characterization, and performance of PES/GO woven mixed matrix nanocomposite forward osmosis membrane for water desalination

Mervat Nasr^{a, b*}, Nada Alfryyan^c, Sahar S. Ali^d, Hanafy M. AbdEl-Salam^a, Mohamed Shaban^{b, e}

^{a.} Chemistry Department, Faculty of Science, Beni-Suef University, Beni-Suef 62514, Egypt.

^{b.} Nanophotonics and Applications (NPA) Lab, Physics Department, Faculty of Science, Beni-Suef University, Beni-Suef, 62514, Egypt

^{c.} Department of Physics, College of Sciences, Princess Nourah bint Abdulrahman University, P.O. Box 84428, Riyadh 11671, Saudi Arabia

^{d.} Chemical Engineering and Pilot-Plant Department, National Research Center, P.O. Box 12622, Dokki, Cairo, Egypt.

^{e.} Department of Physics, Faculty of Science, Islamic University of Madinah, Al-Madinah Al-Munawarah, 42351, Saudi Arabia.

^{f.} *Corresponding author: mohamed.fadel@science.bsu.edu.eg

Table S1. Characteristic of woven fabric used.

Fabric properties	Cetin Woven
Fibre diameter (μm)	11.6
Thickness (μm)	115
Permeability (LMH.bar)	1254
Tensile strength (N/Cm ²)	31.2
Elongation (%)	44.2
Contact angle (degree)	41