

Enhanced Dielectric Properties of Amino-Modified-CNT/Polyimide Composite Films with Sandwich Structure

Yaqin Chen,^a Baoping Lin,^{a*} Xueqin Zhang,^a Junchuan Wang,^a Changwei Lai,^a Ying Sun,^a
Yurong Liu^{a,b} and Hong Yang^a

^a School of Chemistry and Chemical Engineering, Southeast University, Nanjing 211189, China.

^b Chongqing Key Laboratory of Micro/Nano Materials Engineering and Technology, Research Center for Material Interdisciplinary Science, Chongqing University of Arts and Science, Chongqing 402168, China.

E-mail: lbp@seu.edu.cn; Fax: +86 52090616; Tel: +86 136 01401581; +86 138 51439064

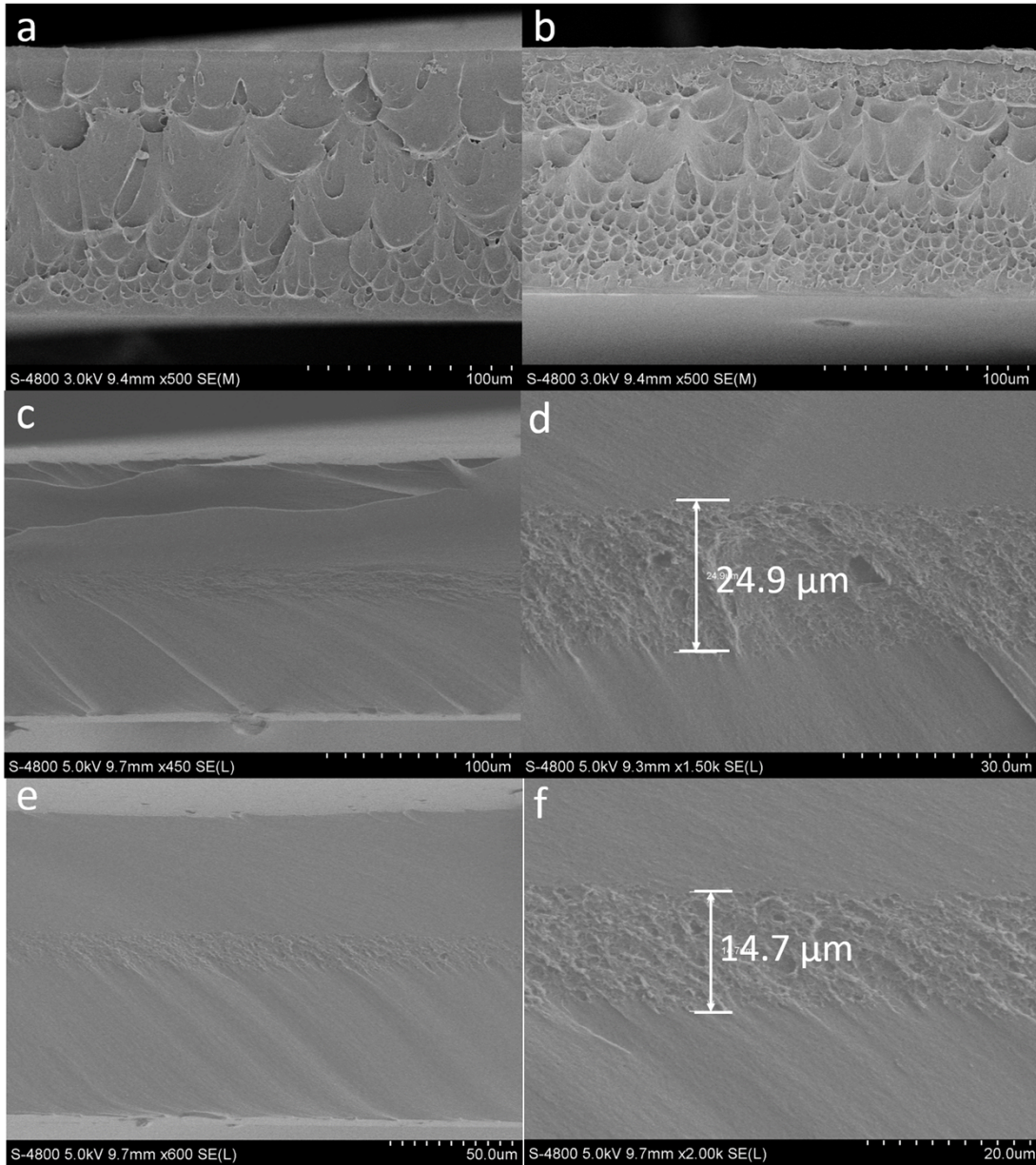


Figure S1. Cross-section SEM images of a) P-10-P, b) P-10-P₅, c) P-10-P₁ and e) P-10-P₁₀₀, d) is enlarged view of c), f) is enlarged view of e).

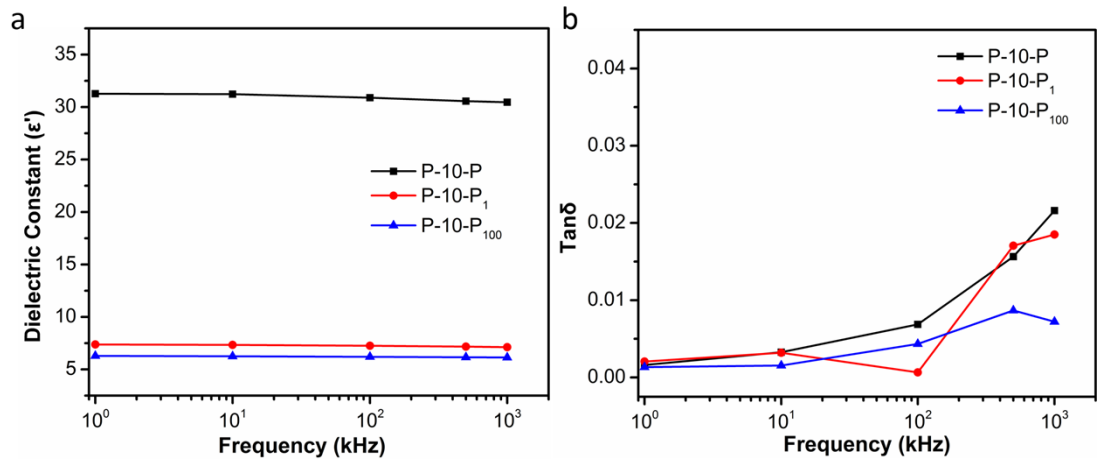


Figure S2. Frequency-dependent a) dielectric constant and b) dielectric loss of the multi-layer structure NH₂-MWNT/PI composite films as a function of the thickness of the mid-layer.