

Supplementary Information

Extremely rapid and simple healing of transparent conductor based on Ag nanowires and polyurethane with Diels–Alder network

Kyoung-hee Pyo, Da Hee Lee, Youngmin Kim and Jong-Woong Kim**

Display Components & Materials Research Center, Korea Electronics Technology Institute, 68 Yatap-dong, Bundang-gu, Seongnam, Gyeonggi-do 463-816, Korea

E-mail: ymkim@keti.re.kr (Y. Kim), wyjd@keti.re.kr (J. W. Kim); Tel.: +82 31 789 7432 (Y. Kim), +82 31 789 7438 (J. W. Kim)



Figure S1. FTIR spectra of PU-A (a) before heating and (b) after heating at 120°C for 10 min.

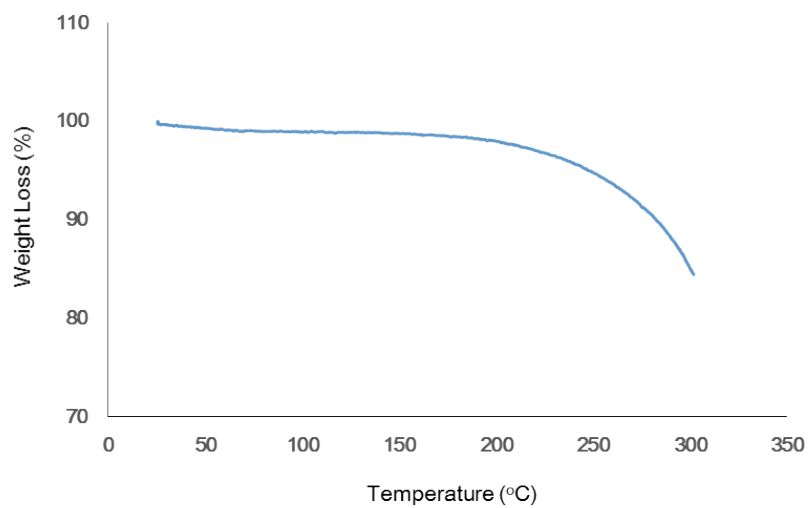


Figure S2. A TGA curve for PU-A.

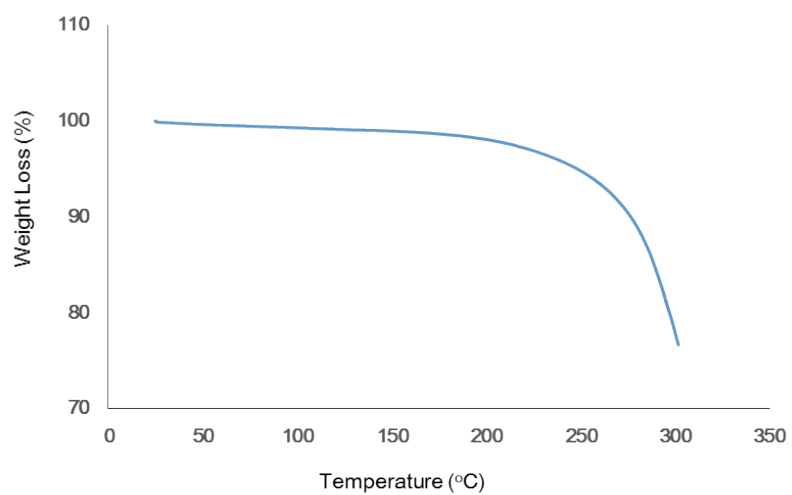


Figure S3. A TGA curve for PU-F.

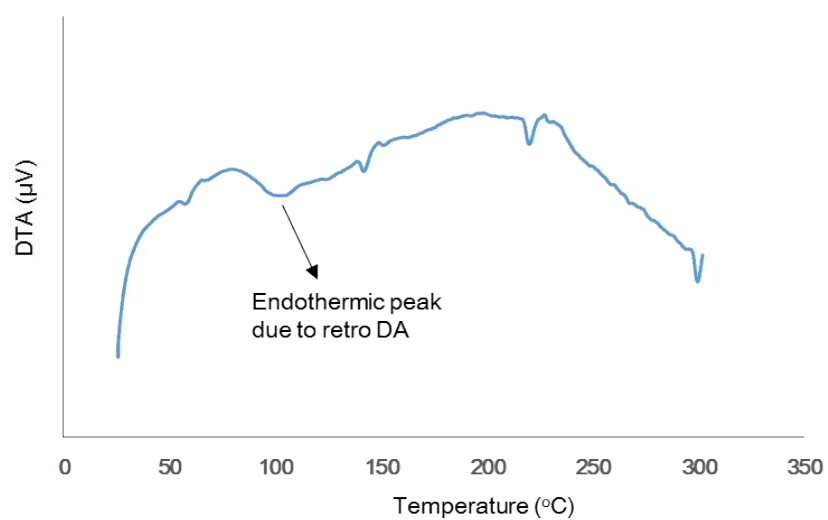


Figure S4. A DTA curve for PU-A.

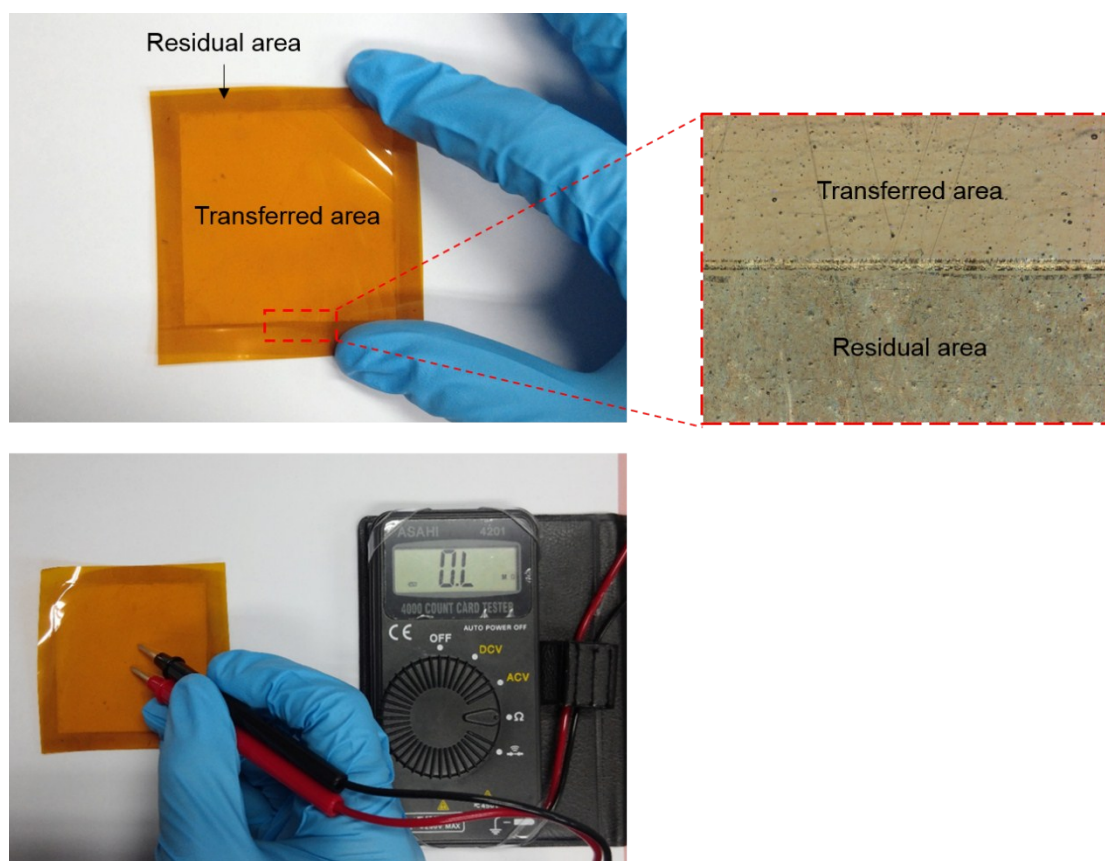


Figure S5. A Kapton film after AgNW transference. AgNWs performed on center area were perfectly transferred to the PU-A, resulting in no residue.

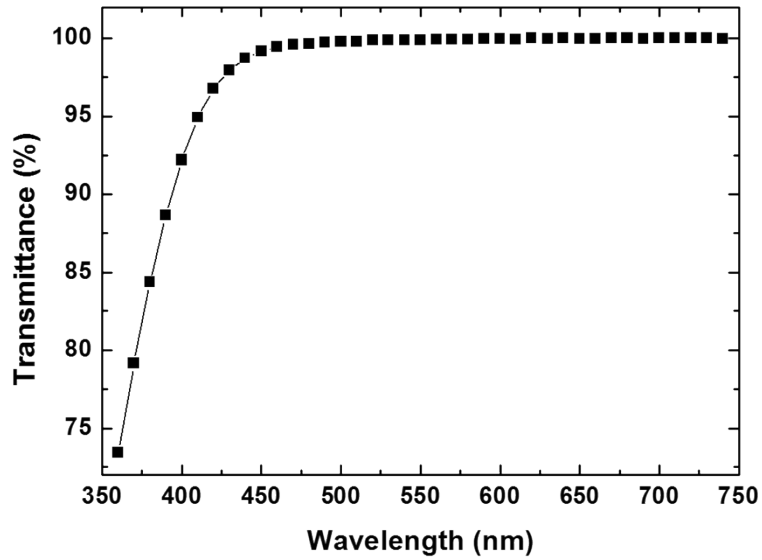


Figure S6. Measured transmittance of the PU-A.

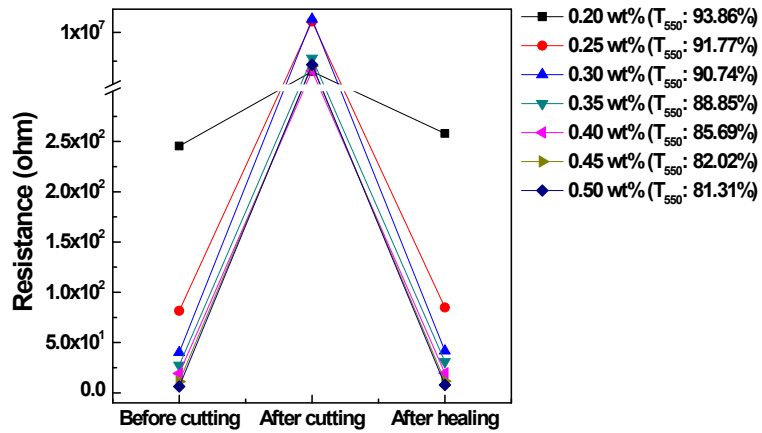


Figure S7. Resistance measured at various stages: before cutting, after cutting and after healing.