

Figure S1 Diagram of tested sample for bulk resistivity and the four-point probe

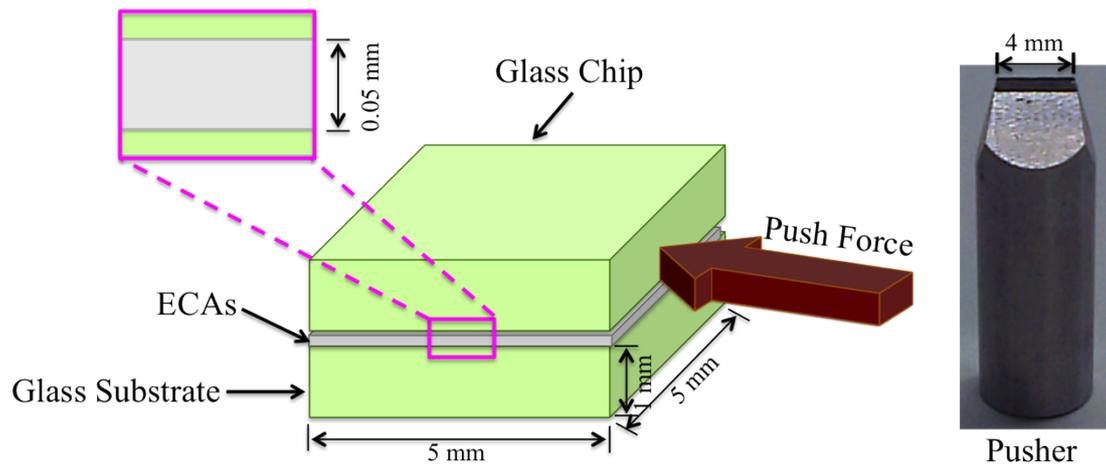


Figure S2 Diagram of tested sample for push force and the pusher

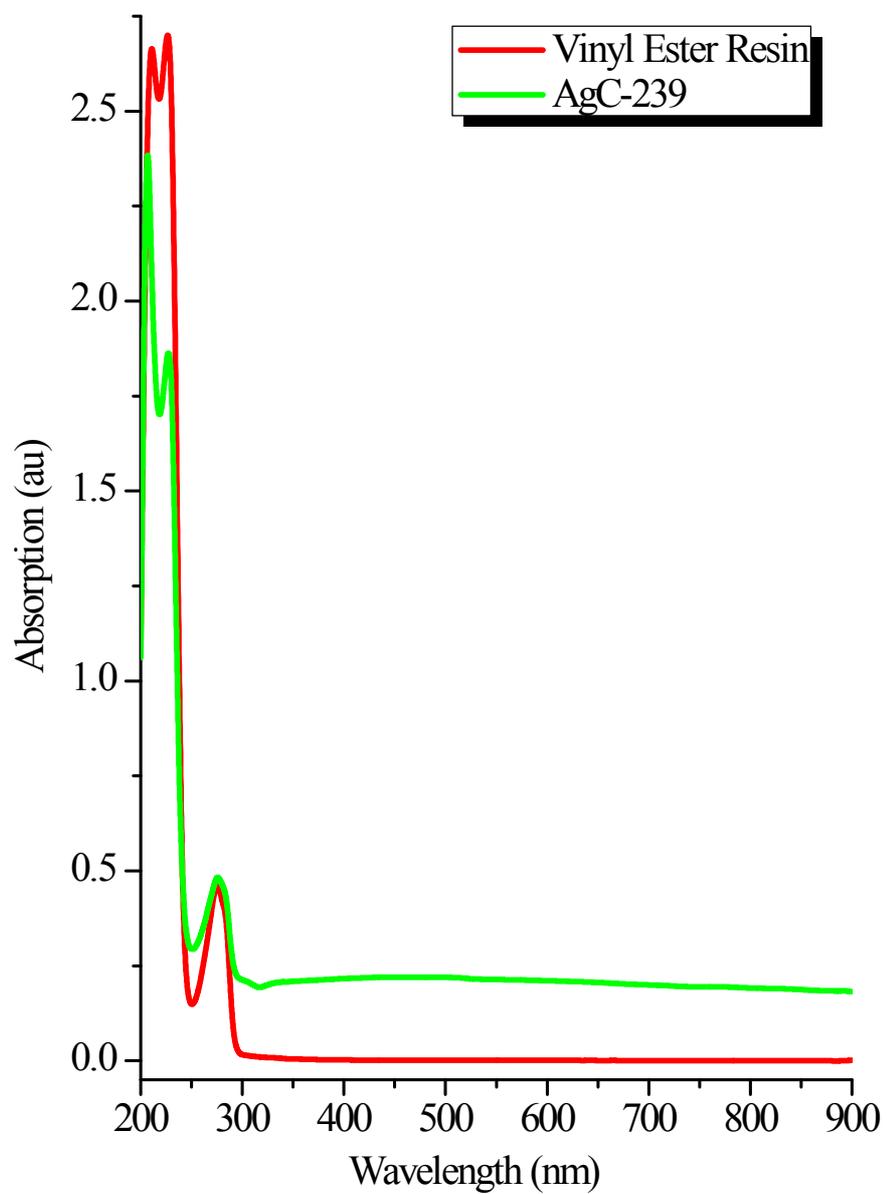


Figure S3 UV-VIS-NIR spectra of vinyl ester resin and AgC-239 micro silver flakes

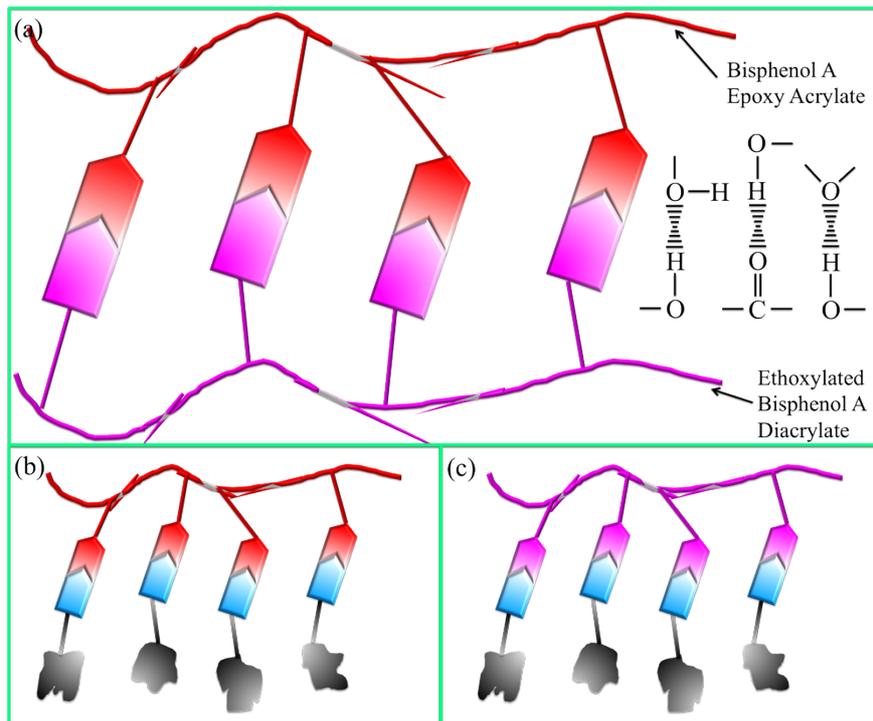


Figure S4 Diagram and formation of hydrogen bond between (a) bisphenol A epoxy acrylate and ethoxylated bisphenol A diacrylate, (b) bisphenol A epoxy acrylate and organic coated micro silver flakes, and (c) ethoxylated bisphenol A diacrylate and organic coated micro silver flakes

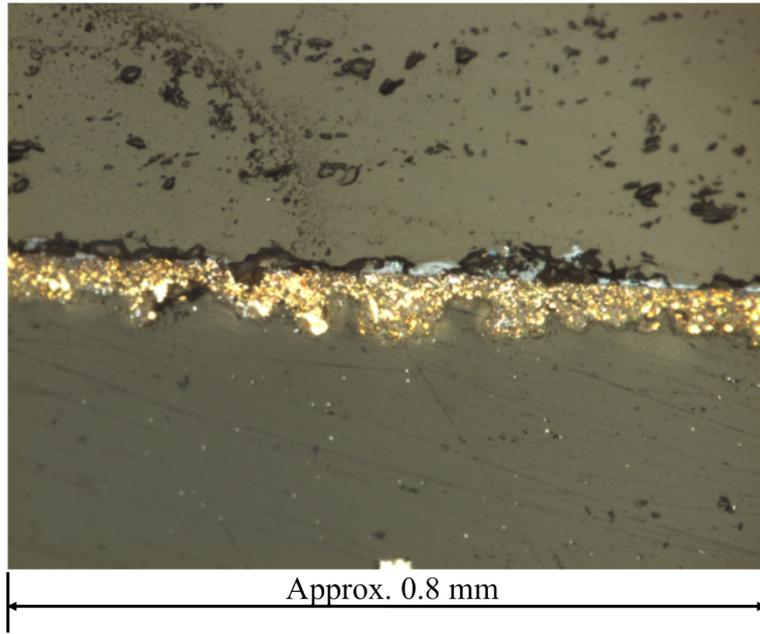


Figure S5 Polished cross-section of samples for nanoindentation test