

Title: Chemical Insolubility of Vapor Phase Infiltrated Poly(methyl methacrylate) / AlO_x Hybrid Materials

Authors: Emily K. McGuinness, Collen Z. Leng, Mark D. Losego

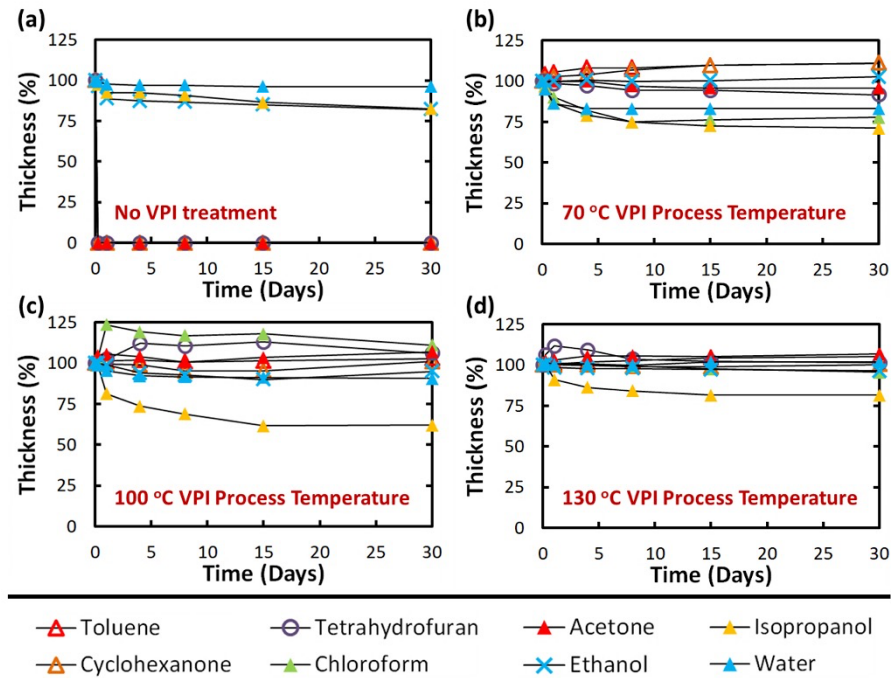


Figure 1: Long term chemical stability of a) untreated PMMA and PMMA treated with TMA VPI at b) 70°C, c) 100°C, and d) 130°C in the following solvents: toluene, cyclohexanone, tetrahydrofuran, chloroform, acetone, ethanol, isopropanol, and water.

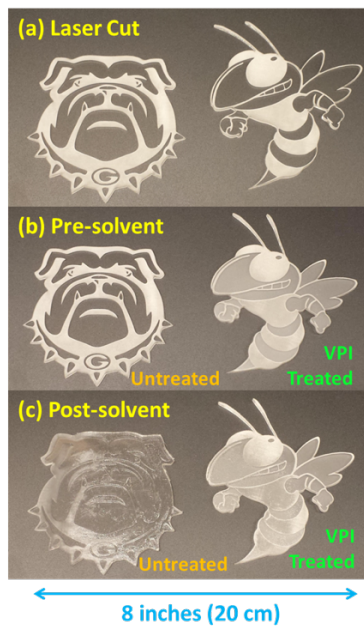


Figure 2: (a) Laser-engraved acrylic cutouts of school mascots. (b) After TMA VPI for bee mascot. (c) After both mascots were submersed 10 minutes in toluene heated to 60°C.