

Assignment 23

Due: *In Lab*, Thursday, May 4/Friday, May 5

1. Did either of your P(CO) materials—crosslinked or not—exhibit shape memory? Alternately, did they change color or appearance when heated and/or cooled? Above what bath temperature did the material exhibit these behaviors? (If you didn't observe shape memory in either material, did your classmates? For what crosslinker fractions?) Based on the amount of crosslinker you added, how does this correlate with arguments made by Coughlin and Mather in their article (*Macromolecules* **2002**, 35, 9868-9874) on crosslinked P(CO)?

2. Which solvents swelled P(CO)? Which solvents didn't? Did swelling correlate with solvent quality for the original polymer?