

Table 1. Polymerization of PMOS in CCl₄/H₂O (50 vol organic:50 vol water) induced by I₂.

Entry	Time (hr)	Yield (%)	\bar{M}_n Theoretical (g·mol ⁻¹)	\bar{M}_n Actual (g·mol ⁻¹)	\bar{M}_w/\bar{M}_n
1	24	9.94	4,970	5,876	1.13
2	24	12.66	6,330	6,000	1.06
3	24	13.4	6,700	6,316	1.14
4	24	10.0	5,000	6,288	1.11
5	48	20.7	10,350	7,424	1.18

a. I₂ = 2×10⁻⁵ mol; PMOS = 0.500 g (ca. 0.50 mL); CCl₄ = 1.25 mL; H₂O = 1.75 mL; T = 25 °C.