

Supplementary Data

Temperature dependent specific ion effects in mixed salt environments on a thermoresponsive poly(oligoethylene glycol methacrylate) brush

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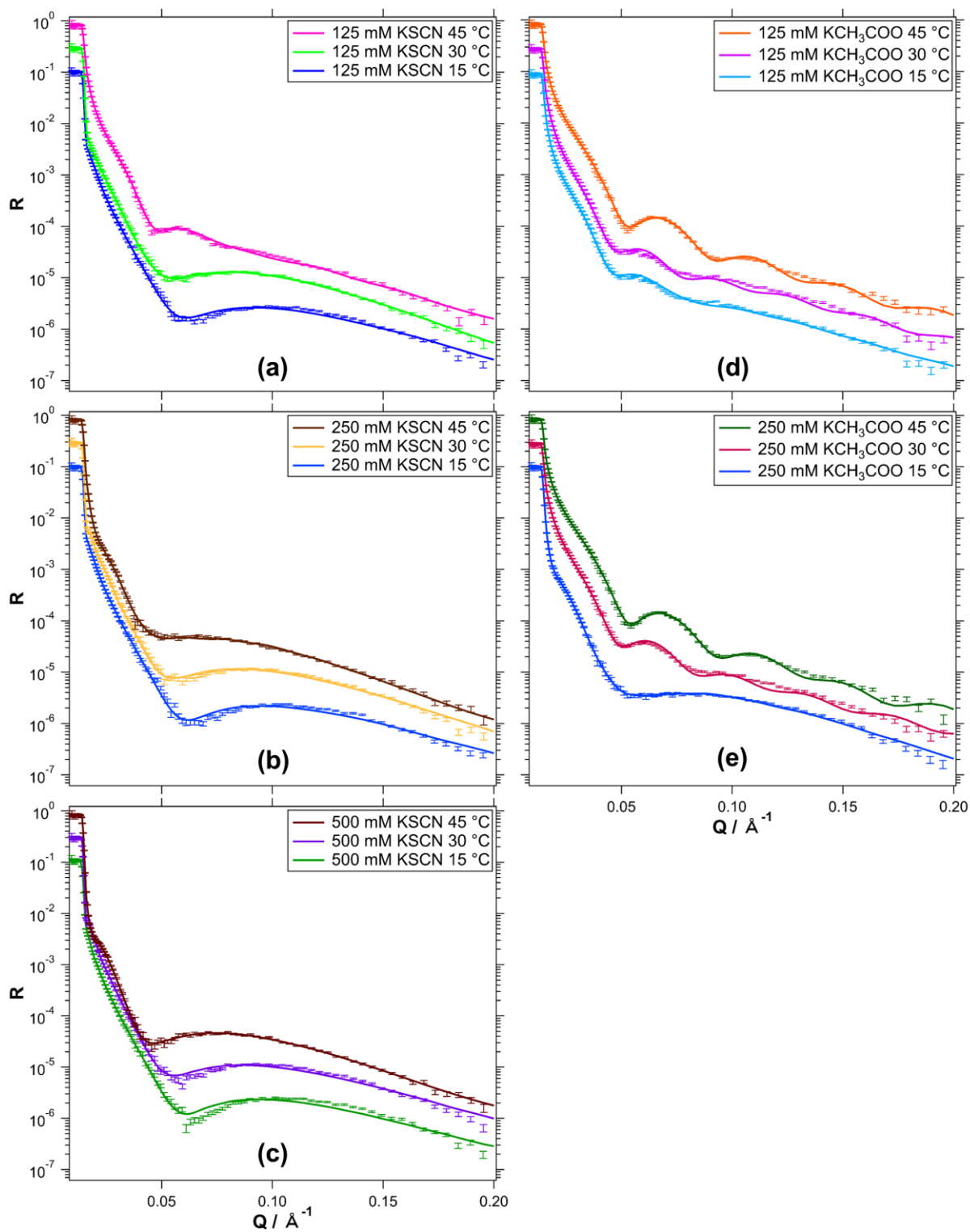


Figure S1. Fitted neutron reflectivity data of a $120 \pm 6 \text{ \AA}$ P(MEO₂MA-*stat*-OEGMA₃₀₀) 80:20 mol% brush as a function of temperature in a variety of D₂O electrolyte solutions of potassium thiocyanate (KSCN) (a, b, c) and potassium acetate (KCH₃COO) (d, e).

Table S1. Chronology of neutron reflectometry and QCM-D experimental conditions

Condition Number	Neutron Reflectometry*		QCM-D**	
	[KCH ₃ COO] mM	[KSCN] mM	[KCH ₃ COO] mM	[KSCN] mM
1	0	0	0	0
2	125	0	250	0
3	250	0	500	0
4	0	125	0	250
5	125	125	250	250
6	250	125	500	250
7	0	250	0	500
8	125	250	250	500
9	250	250	500	500
10	0	500	0	1000
11	250	500		

*At each condition the reflectivity was measured at 45 °C then 30 °C then 15 °C.

**Dissipation monitored continuously as temperature ramped from hot to cold.

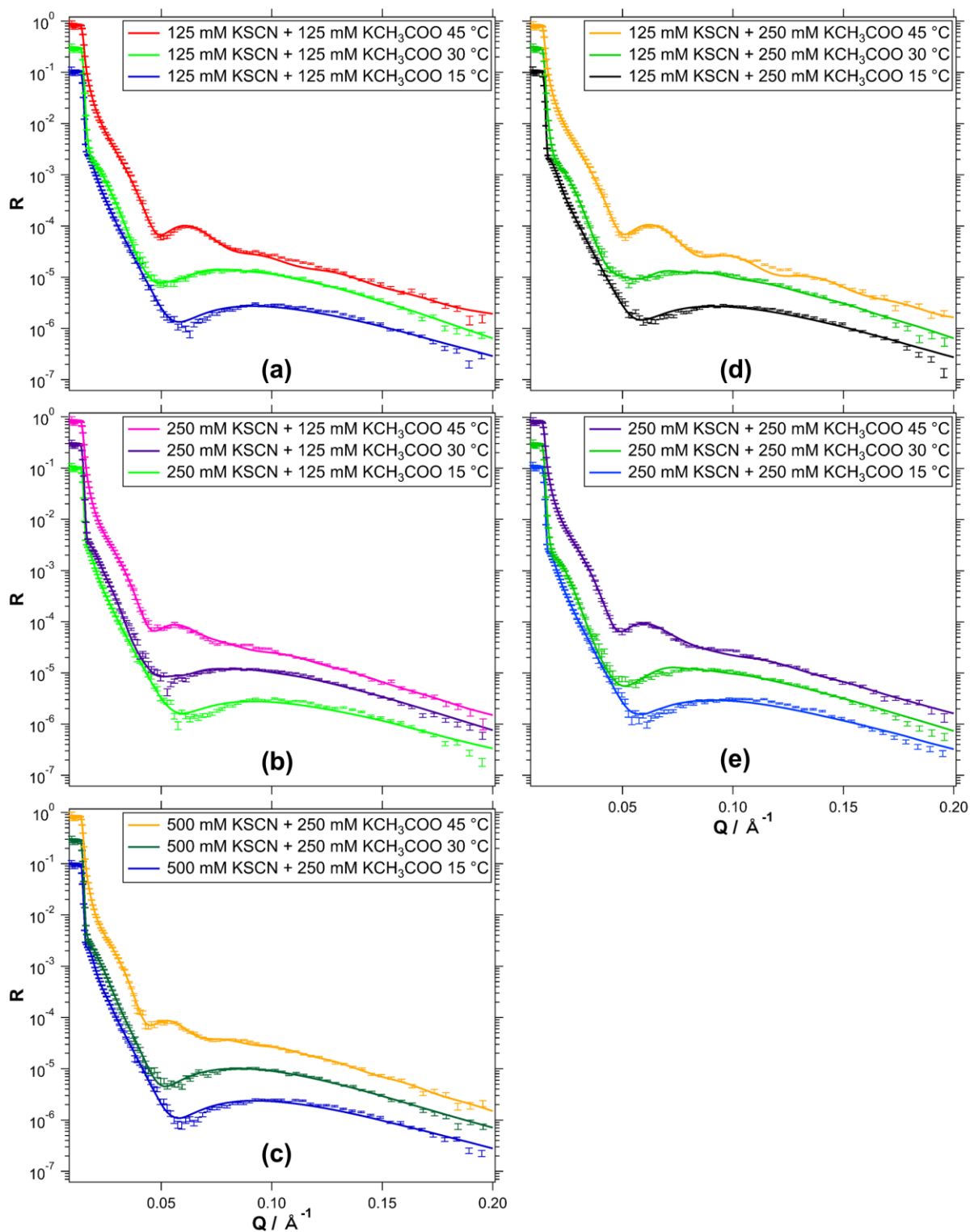


Figure S2. Fitted neutron reflectivity data of a $120 \pm 6 \text{ \AA}$ P(MEO₂MA-*stat*-OEGMA₃₀₀) 80:20 mol% brush as a function of temperature in a variety of D₂O mixed electrolyte solutions of KCH₃COO and KSCN.