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The morphology of A2B mikotoarm polymer in thin film HYEY-
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The morphologies of A2B mikto-arm polymer consisted of poly(2-vinyl pyridine)
and polystyrene ((P2VP)2PS) in thin film were examined. Solvent vapor anneal-
ing produces films with lamellae perpendicular to the substrate within a very short
time. The change in the morphology for different periods of time, corresponding to
different swelling ratios was observed by grazing incidence small angle x-ray scat-
tering and scanning force microscopy. This morphology showed the smaller height
difference between PS and P2VP microdomains, when compared to the correspond-
ing diblock copolymer. We also observed the long-range ordering formed on the
saw-tooth pattern. Thermal annealing, on the other hand, resulted in the lamellae
being oriented parallel to the substrate, where unusual behavior was depending on
the film thickness and surface energy of substrate.

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