

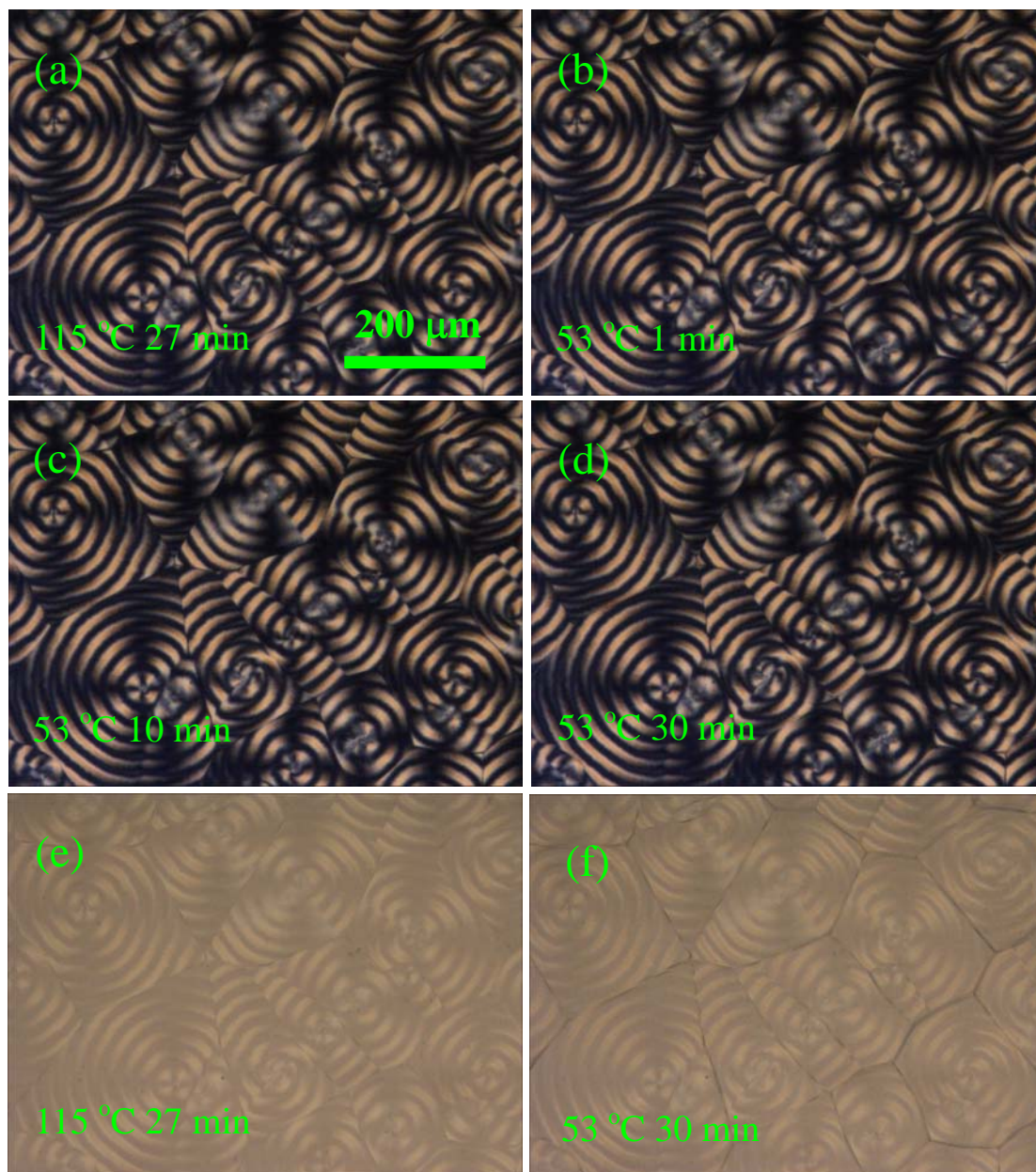
## Supplementary information for

# Disclosing the formation of ring-banded spherulites for semicrystalline polymers through the double-layer film method†

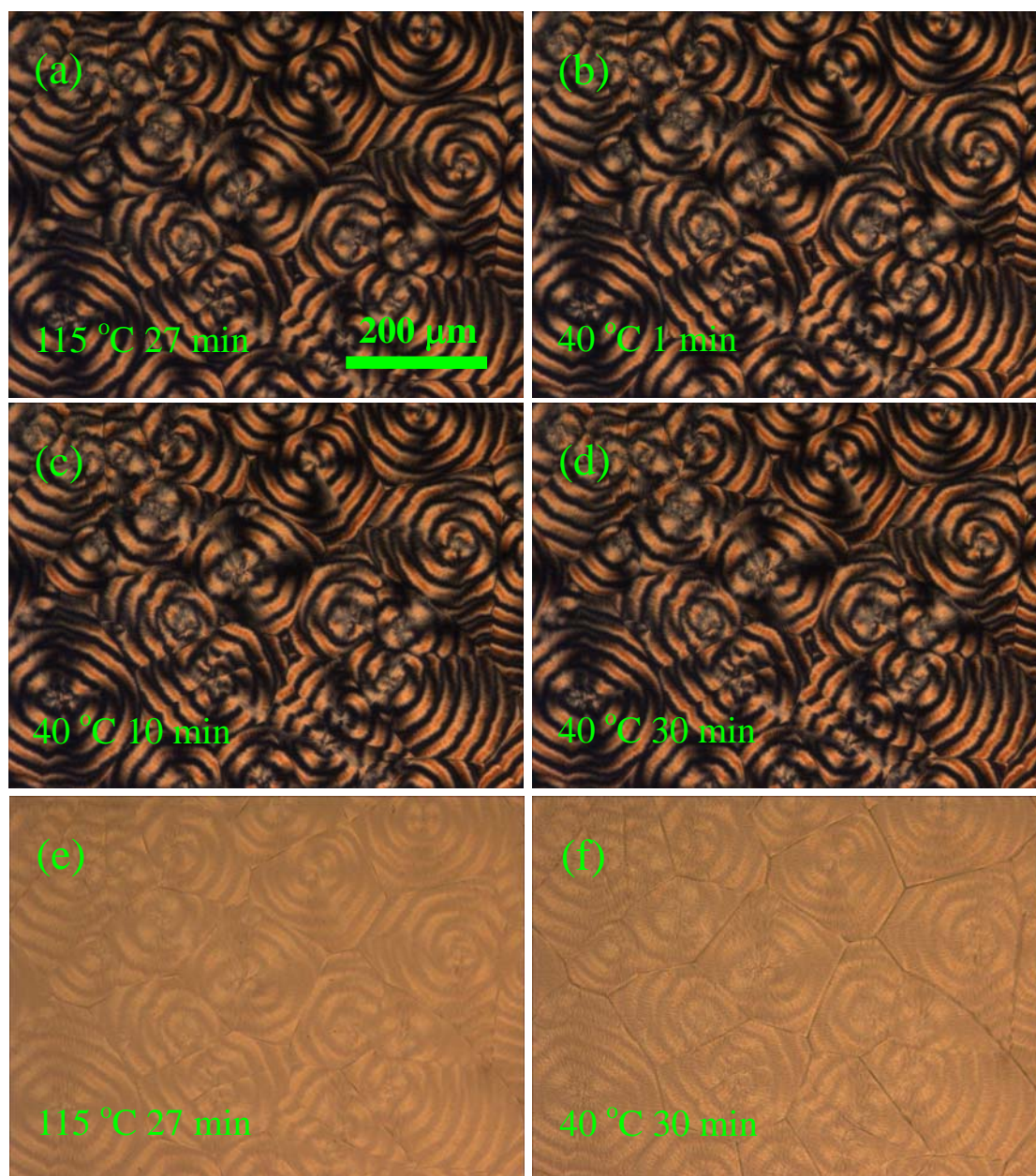
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**Fig. S1** POM (a-d) and OM (e, f) micrographs for PLA/PEO 75/25 blend films during isothermal crystallization at two-step crystallization temperatures of 115 and 53 °C, respectively, (a) 115 °C for 27 min; (b) 53 °C for 1 min; (c) 53 °C for 10 min; (d) 53 °C for 30 min; (e) 115 °C for 27 min (bright field micrograph); and (f) 53 °C for 30 min (bright field micrograph). The film samples were melted at 180 °C for 5 min before the first step quench. The scale bar in (a) represents 200 μm and is applied to all other micrographs.



**Fig. S2** POM (a-d) and OM (e, f) micrographs for PLA/PEO 75/25 blend films during isothermal crystallization at two-step crystallization temperatures of 115 and 40 °C, respectively, (a) 115 °C for 27 min; (b) 40 °C for 1 min; (c) 40 °C for 10 min; (d) 40 °C for 30 min; (e) 115 °C for 27 min (bright field micrograph); and (f) 40 °C for 30 min (bright field micrograph). The film samples were melted at 180 °C for 5 min before the first step quench. The scale bar in (a) represents 200 μm and is applied to all other micrographs.