

## *Supporting Information*

### **Ordering Dynamics in Symmetric PS-*b*-PMMA Diblock Copolymer Thin Films During Rapid Thermal Processing**

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**Table S1. Toluene amount and geometrical data of various samples**

| time (s) | 250°C               |                                |                                 |                                | 270°C               |                                |                                 |                                | 290°C               |                                |                                 |                                |
|----------|---------------------|--------------------------------|---------------------------------|--------------------------------|---------------------|--------------------------------|---------------------------------|--------------------------------|---------------------|--------------------------------|---------------------------------|--------------------------------|
|          | Toluene amount (ng) | Sample area (mm <sup>2</sup> ) | Random copolymer thickness (nm) | Block copolymer thickness (nm) | Toluene amount (ng) | Sample area (mm <sup>2</sup> ) | Random copolymer thickness (nm) | Block copolymer thickness (nm) | Toluene amount (ng) | Sample area (mm <sup>2</sup> ) | Random copolymer thickness (nm) | Block copolymer thickness (nm) |
| 1        | 413.8               | 103.08                         | 5.48                            | 23.72                          | 268.2               | 95.75                          | 4.99                            | 22.94                          | 219.6               | 91.90                          | 5.11                            | 25.00                          |
| 5        | 308.6               | 88.00                          | 5.45                            | 23.18                          | 227.6               | 84.78                          | 5.04                            | 23.62                          | 184.7               | 78.39                          | 4.84                            | 25.10                          |
| 10       | 337.8               | 110.58                         | 5.24                            | 22.14                          | 225.7               | 85.28                          | 4.96                            | 23.81                          | 215.5               | 95.78                          | 4.60                            | 25.30                          |
| 60       | 283.5               | 101.18                         | 5.09                            | 22.95                          | 235.9               | 95.34                          | 5.17                            | 22.68                          | 214.1               | 100.81                         | 4.81                            | 25.83                          |
| 300      | 274.5               | 102.59                         | 4.93                            | 23.96                          | 218.1               | 93.27                          | 5.02                            | 21.26                          | 187.8               | 96.03                          | 4.63                            | 25.69                          |
| 600      | 238.7               | 89.90                          | 4.50                            | 24.31                          | 231.2               | 102.75                         | 4.87                            | 21.10                          | 187.8               | 97.76                          | 4.77                            | 26.03                          |
| 900      | 233.1               | 91.63                          | 5.55                            | 23.16                          | 224.3               | 108.93                         | 4.94                            | 21.25                          | 154.9               | 82.92                          | 4.43                            | 27.10                          |
| 1200     | 220.2               | 85.70                          | 5.31                            | 24.02                          | 201.2               | 98.85                          | 4.98                            | 21.50                          | 153.7               | 82.35                          | 4.79                            | 27.14                          |