

Supporting Information

Isotactic-Polypropylene/Atactic-Polystyrene Miktoarm Star Copolymers: Synthesis and Aggregation Morphology

Yuanjie Wang, Xinzhi Liu, Liying Liu, Hui Niu*

State Key Laboratory of Fine Chemicals, Department of Polymer Science and Engineering, School of Chemical Engineering, Dalian University of Technology, Dalian 116024, China

E-mail address: hniu@dlut.edu.cn

Table S1. Purification of *i*PP/*a*PS miktoarm star copolymers ^a.

Samples	Miktoarm Star Copolymer (g)	Miktoarm Star Copolymer Yield (wt %)	THF Soluble at r.t. (<i>a</i> PS wt %)	THF Insoluble under Reflux (<i>i</i> PP wt %)
S-1	0.460	46.0	9.0	45.0
S-2	0.570	57.0	11.0	32.0
S-3	0.550	55.0	8.5	36.5

^a The *a*PS homopolymer was removed by THF dialyzing at room temperature (r.t.) for 24h; the *i*PP homopolymer was removed by Soxhlet extraction with boiled THF for 10 h; after the extraction the soluble part was collected to get the purified miktoarm star copolymer.

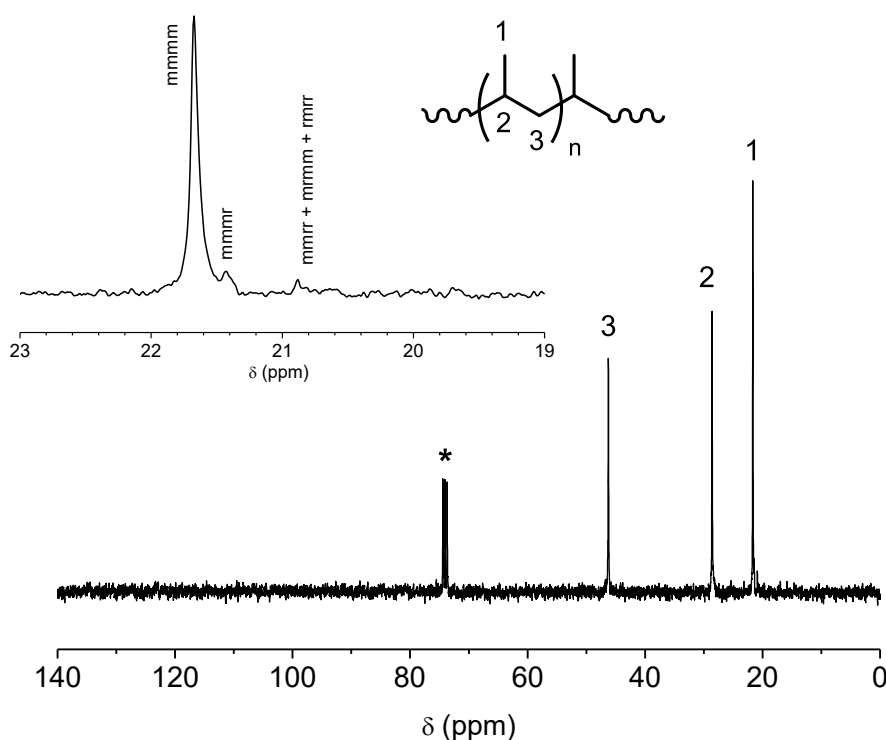


Figure S1. ¹³C-NMR spectrum of the CH₃OSi-terminated *i*PP arm precursor.

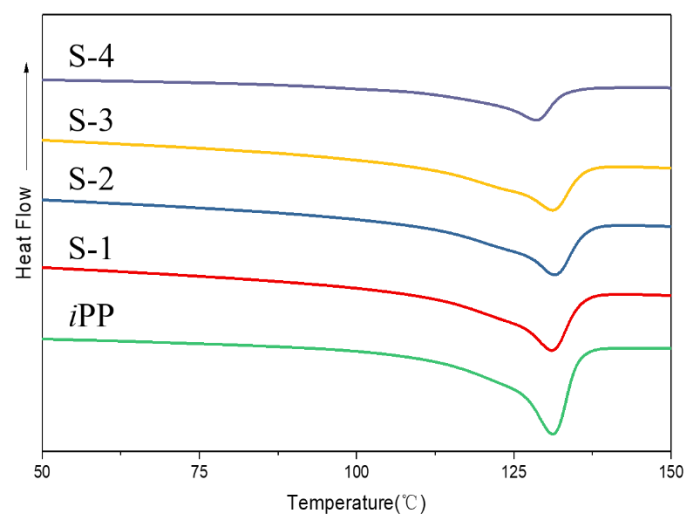


Figure S2. DSC heating curves of the *iPP* arm precursor and *iPP/aPS* miktoarm star copolymers (all graphics have the same ordinate units).

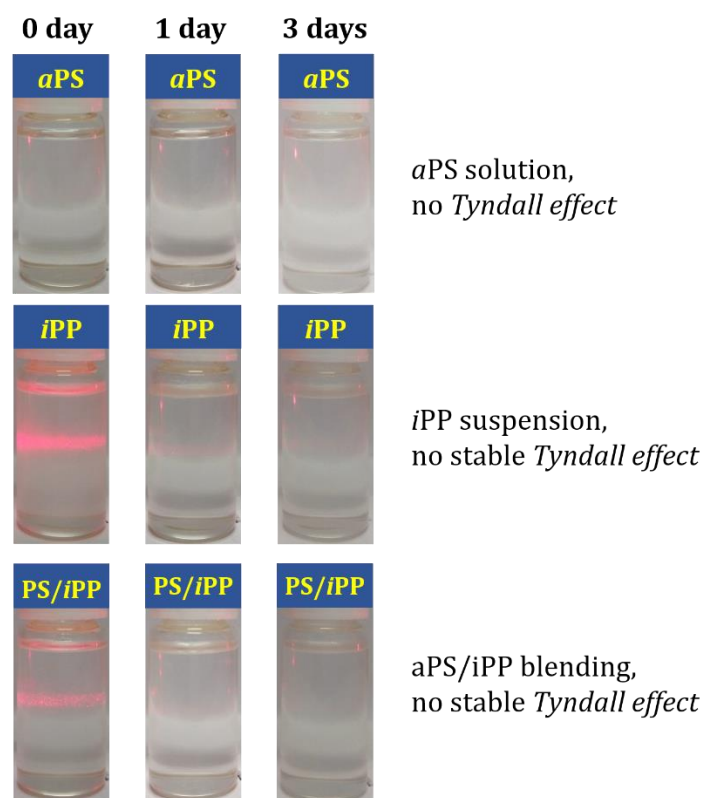


Figure S3. Photographs of *iPP* and *aPS* homopolymer and their blends solution irradiated by a laser beam.

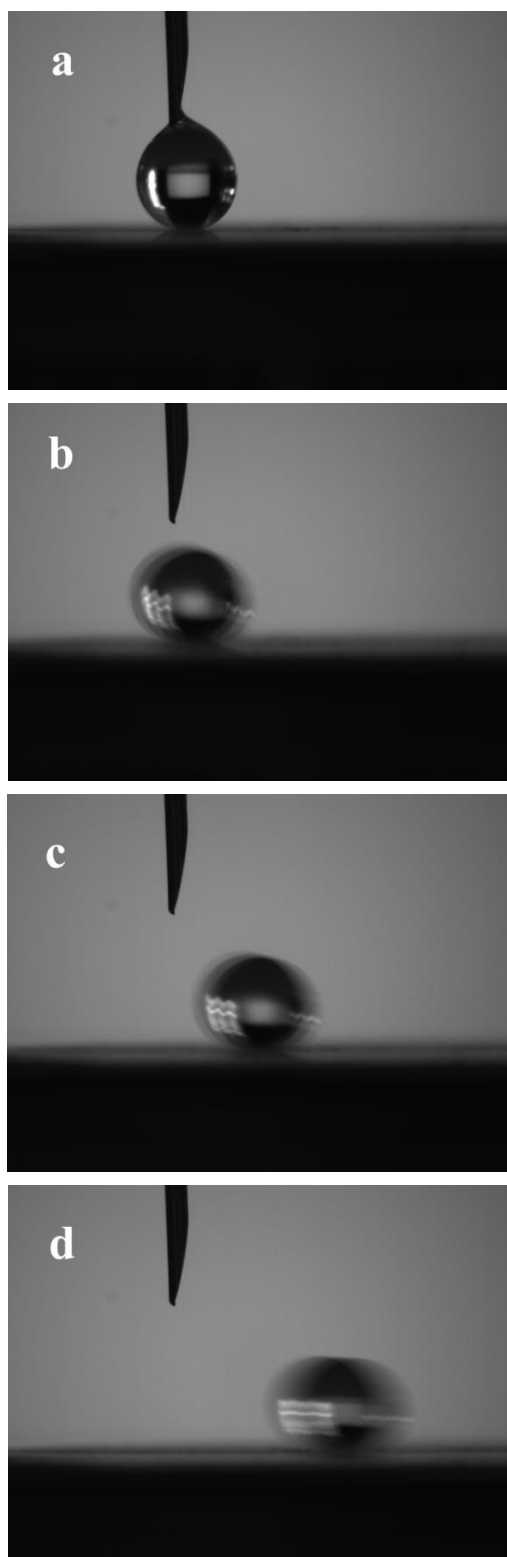


Figure S4. The rolling of water drop on the S-(2+3) surface with inclined angle of 1.5°.