

Supplementary Materials: Enzymatic Synthesis and Characterization of Hydrophilic Sugar Based Polyesters and Their Modification with Stearic Acid

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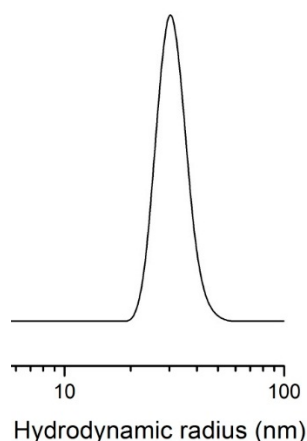


Figure S1. Hydrodynamic radius distribution of PXA at concentration 10 g·L⁻¹ at temperature 25 °C.

Table S1. WAXS data of PXA-g-S15.

<i>T</i> (°C)	<i>q</i> (Å ⁻¹)	<i>d</i> (Å)	
30 °C heating	1.3663	4.599	diffuse
	1.5222	4.128	<i>q_w</i>
70 °C	1.3817	4.547	diffuse
30 °C cooling	1.4138	4.444	diffuse
	1.5204	4.133	<i>q_w</i>

Table S2. SAXS data of PXA-g-S15.

<i>T</i> (°C)	<i>q</i> (Å ⁻¹)	<i>d</i> (Å)	
30 °C heating	0.1136	55.310	<i>q</i> [*]
70 °C	0.1284	48.934	Broad Peak
30 °C cooling	0.1230	51.083	<i>q</i> [*]

q^{*} is the wave vector at the first maximum.

Table S3. WAXS data of PXA-g-S36.

<i>T</i> (°C)	<i>q</i> (Å ⁻¹)	<i>d</i> (Å)	
30 °C heating	1.5187	4.137	<i>q_w</i>
70 °C	1.3661	4.599	diffuse
30 °C cooling	1.5174	4.141	<i>q_w</i>

Table S4. SAXS data of PXA-g-S36.

<i>T</i> (°C)	<i>q</i> (Å ⁻¹)	<i>d</i> (Å)	
30 °C heating	0.1648	38.126	<i>q</i> *
	0.3286	19.121	2 <i>q</i> *
	0.4903	12.815	3 <i>q</i> *
70 °C	0.1676	37.489	Broad Peak
30 °C cooling	0.1649	38.103	<i>q</i> *
	0.3292	19.086	2 <i>q</i> *
	0.4896	12.833	3 <i>q</i> *

*q** is the wave vector at the first maximum.

Table S5. WAXS data of PDSA-g-S10.

<i>T</i> (°C)	<i>q</i> (Å ⁻¹)	<i>d</i> (Å)	
30 °C heating	1.4299	4.394	diffuse
	1.5199	4.134	<i>q</i> _w
70 °C	1.3788	4.557	diffuse
30 °C cooling	1.3557	4.635	diffuse
	1.5015	4.185	<i>q</i> _w

Table S6. SAXS data of PDSA-g-S10.

<i>T</i> (°C)	<i>q</i> (Å ⁻¹)	<i>d</i> (Å)	
30 °C heating	0.1100	57.120	<i>q</i> *
70 °C	0.1205	52.143	Broad Peak
30 °C cooling	0.1133	55.456	<i>q</i> *

*q** is the wave vector at the first maximum.

Table S7. WAXS data of PDSA-g-S68.

<i>T</i> (°C)	<i>q</i> (Å ⁻¹)	<i>d</i> (Å)	
30 °C heating	1.5150	4.147	<i>q</i> _w
70 °C	1.3640	4.606	diffuse
30 °C cooling	1.5123	4.155	<i>q</i> _w

Table S8. SAXS data of PDSA-g-S68.

<i>T</i> (°C)	<i>q</i> (Å ⁻¹)	<i>d</i> (Å)	
30 °C heating	0.1734	36.235	<i>q</i> *
	0.3464	18.139	2 <i>q</i> *
70 °C	0.1856	33.853	Broad Peak
30 °C cooling	0.1768	35.538	<i>q</i> *
	0.3506	17.921	2 <i>q</i> *

*q** is the wave vector at the first maximum.

