

Supplementary data

Table S1. Elemental analysis (EA) for NCC and surface-modified NCC

Samples	% C	% H	% N	% Si
NCC	42.6	6.8	0	0
NCC-g-APES	44.0	7.6	0.81	1.62
NCC-g-PHBH	46.6	7.6	0.65	1.30

Table S2. Calorimetric data for the PHBH, PHBH/NCC and PHBH/NCC-g-PHBH blends.

Samples	T_c (°C)	ΔH_m (J/g)	T_{cc} (°C)	X_c (%)	T_m (°C)
PHBH	/	/	74.7	/	126.5/143.1
PHBH _{0.5}	64.1	47.7	/	32.7	126.4/141.5
PHBH _{1.0}	81.9	48.5	/	33.2	128.9/141.9
PHBH _{2.0}	69.2	55.0	/	37.7	126.2/141.8
PHBH/NCC	45.8	48.9	/	33.5	129.3/143.4

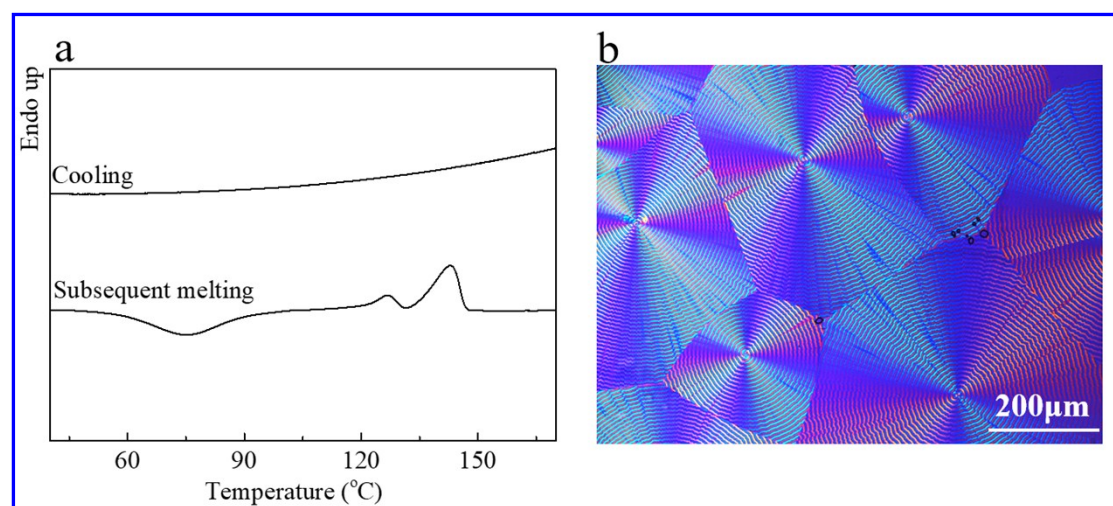


Fig. S1. (a) Crystallization upon cooling and subsequent melting DSC curves and (b) polarizing optical photographs of final crystalline morphology of the PHBH/APES sample.