

Supplementary Material

FTIR-ATR Spectra

The Boc-Phe-Phe nanotubes exhibit an absorption band at $\sim 1631\text{ cm}^{-1}$ corresponding to the asymmetric stretch of carbonyl group in the peptide bond indicating the presence of hydrogen bonded β -sheet secondary structure. The absence of a weak band at 1695 cm^{-1} indicates the presence of parallel β -sheet structures in the solid nanotubes. This is in agreement with previous reports on the presence of parallel β -sheets in amyloid fibrils.⁷¹

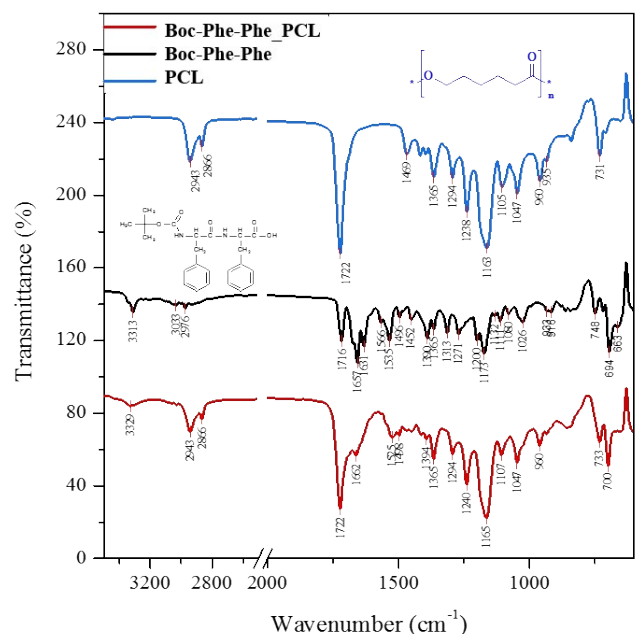


Figure SM1. FTIR-ATR of PCL, Boc-Phe-Phe and Boc-Phe-Phe_PCL fibers.

Table SM1. FTIR-ATR data of the main transmittance frequencies of Boc-Phe-Phe and Boc-Phe-Phe_PCL fibers.

IR transmittance frequencies ($\nu_{\text{max}}/\text{cm}^{-1}$)			Assignment
Boc-Phe-Phe	PCL	Boc-Phe-Phe_PCL	
3313		3329	-N-H symmetric stretch
3033	2943	2943	
2976	2866	2866	-C-H stretch (aromatic)
1716	1722	1722	
1657		1662	-C=O asymmetric stretch
1631			-C=O stretch (acid carboxylic)
1535		1525	C=C stretch (aromatic)
	1238	1240	
			C-O-C asymmetric stretch
1173	1163	1165	C-O-C symmetric stretch
694	731	700	=C-H hydrogen vibrations (aromatic)