Supporting Information

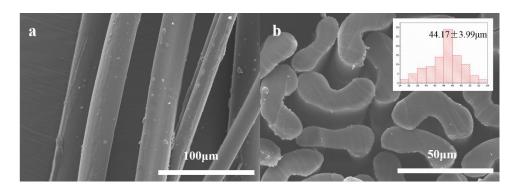


Figure. S1 Surface and cross section of PVA/HDI, together with its diameter distribution.

Table S1 Elemental analysis (EA) of PVA/HDI and PVA/CD/HDI.

Sample	C/%	H/%	O/%	N/%
PVA/HDI	51.21	9.22	39.04	0.53
PVA/75CD/HDI	45.84	8.47	42.82	2.87

Table S2 Characteristic joints of TGA at air atmosphere.

Sample	$T_{10\%}/^{\circ}C$	$T_{peak loss}$ /°C	$T_{90\%}/^{\circ}\mathbb{C}$	$\mathrm{W}_{550^{\circ}}$ /%
PVA	223.3	238.3	514.2	0.9
PVA/75CD	233.3	248.3	535.8	5.5
PVA/75CD/HDI	234.2	247.5	527.5	6.4

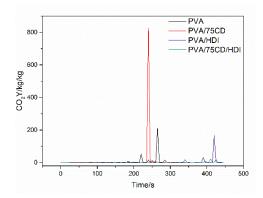


Figure. S2 CO₂ yield (CO₂Y) of PVA, PVA/75CD, PVA/HDI and PVA/75CD/HDI in cone calorimeter.