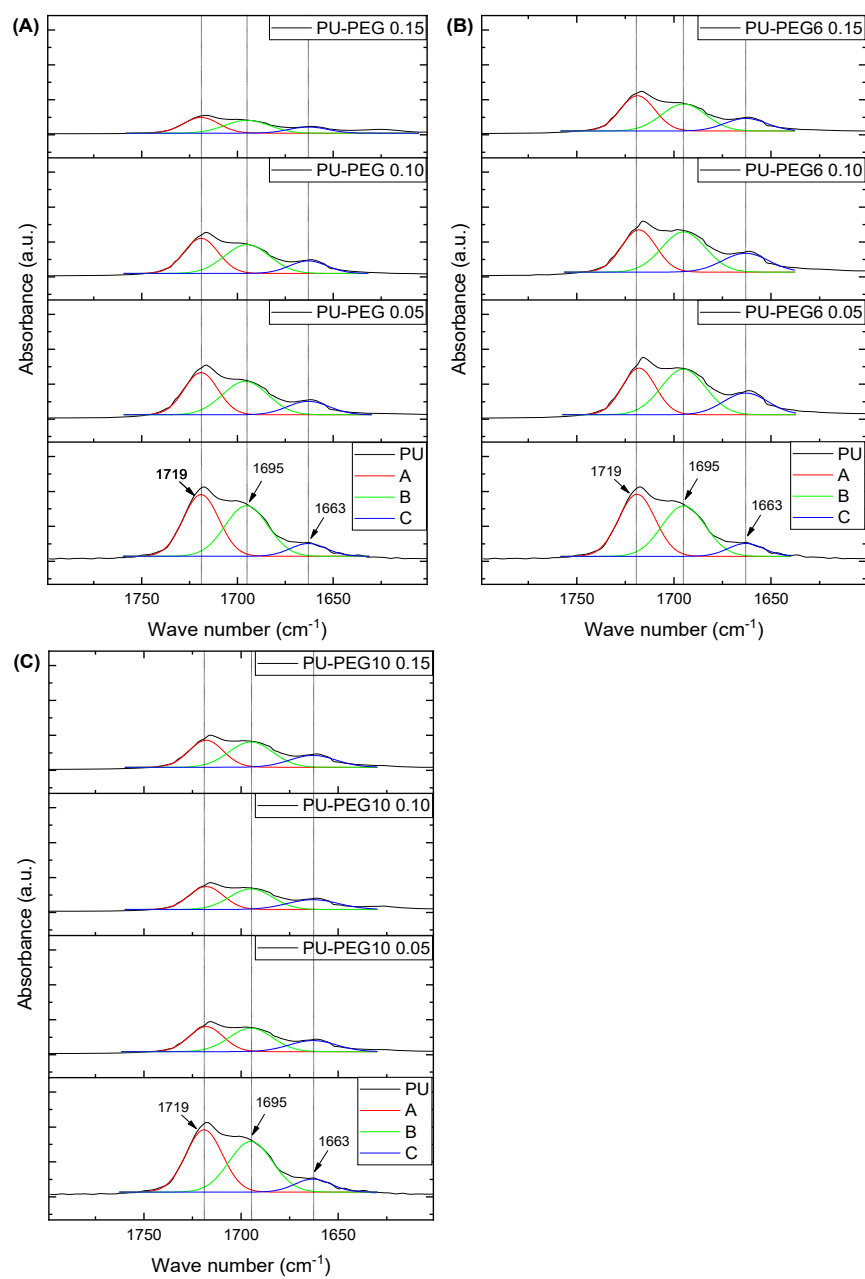


## Supplementary Material



**Figure S1.** Deconvolution of the carbonyl bands from unmodified and PEG-grafted substrata. (A) PEG2-grafted PU; (B) PEG6-grafted PU; (C) PEG10-grafted PU.

**Table S2.** Band ratios of carbonyl bands from unmodified and PEG-grafted substrata.

<b>Sample</b>	<b>C/(A+B)</b>
PU	0.146
PU-PEG2 0.05	0.211
PU-PEG2 0.10	0.226
PU-PEG2 0.15	0.243
PU-PEG6 0.05	0.256
PU-PEG6 0.10	0.254
PU-PEG6 0.15	0.234
PU-PEG10 0.05	0.260
PU-PEG10 0.10	0.254
PU-PEG10 0.15	0.234

**A:** 1719 cm<sup>-1</sup> band; **B:** 1695 cm<sup>-1</sup> band; **C:** 1663 cm<sup>-1</sup> band.

**Table S3.** Decomposition temperatures (Td) of PU, PEG and PEG-grafted substrata.

<b>Sample</b>	<b>Td1 (°C)</b>	<b>Td2 (°C)</b>
PU	340	413
PEG2	-	405
PU-PEG2 0.05	315	406
PU-PEG2 0.10	319	405
PU-PEG2 0.15	328	405
PEG6	-	413
PU-PEG6 0.05	330	407
PU-PEG6 0.10	319	406
PU-PEG6 0.15	334	415
PEG10	-	417
PU-PEG10 0.05	340	411
PU-PEG10 0.10	340	414
PU-PEG10 0.15	340	414

**Table S4.** pH measurements of culture medium (DMEM) with the PEG diluted.

	PEG amount		pH
	(mg/mL)	( $\mu$ mol/mL)	
DMEM	0	0.0	8.50
DMEM-PEG2	1	0.5	8.57
	2	1.0	8.65
	3	1.5	8.70
DMEM-PEG6	1	0.2	8.57
	2	0.3	8.64
	3	0.5	8.70
DMEM-PEG10	1	0.1	8.57
	2	0.2	8.65
	3	0.3	8.70