

## Supplementary Materials

# Grafting of polypyrrole-3-carboxylic acid to the surface of hexamethylene diisocyanate-functionalized graphene oxide

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**Table S1.** TGA, surface area and sheet resistance data of GO, HDI-GO, PPy-COOH and the grafted samples.

Sample	T <sub>i</sub> (°C)	T <sub>10</sub> (°C)	T <sub>max(I,II)</sub> (°C)	R (wt%)	SSA (m <sup>2</sup> /g)	Rs (Ω/sq)
GO	121	186	222, -	48.5	103.1	-
HDI-GO	190	298	225, 387	48.2	81.2	-
PPy-COOH	202	257	276, 444	8.6	25.4	181
PPy-COOH-g-HDI-GO-1	204	255	271, 472	13.1	58.3	330
PPy-COOH-g-HDI-GO-2	195	271	290, 486	13.5	49.0	253

T<sub>i</sub>: initial degradation temperature at 2% weight loss; T<sub>10</sub>: temperature of 10% of weight loss. T<sub>max</sub>: temperature of maximum rate of weight loss. The subscripts I and II refer to the first and second degradation stages, respectively. R: residue at 600 °C. Rs: sheet resistance; SSA: specific surface area