

## Effects of GO Oxidation Degree on GO/BuMgCl-supported Ti-based Ziegler-Natta Catalysts Performance and Nanocomposite Properties

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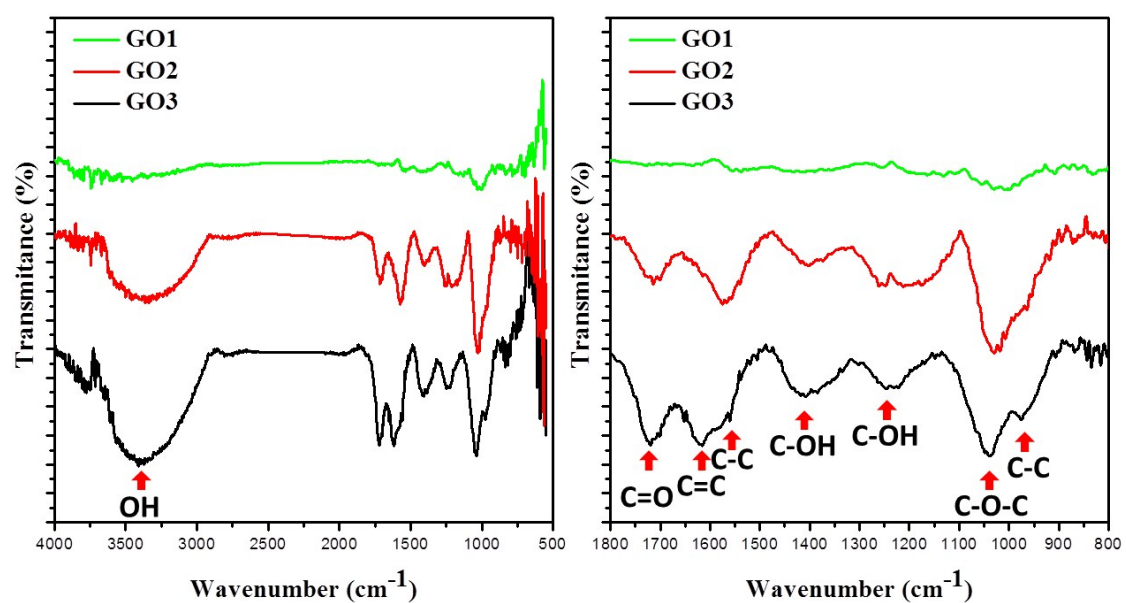


Figure S1. FT-IR spectra of GO1, GO2 and GO3

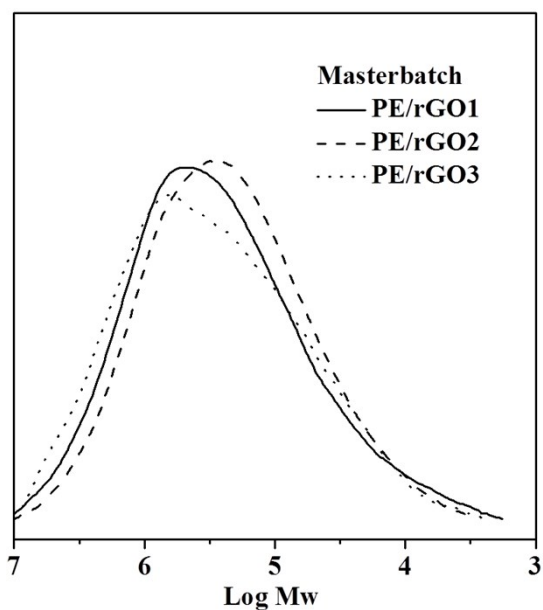


Figure S2. GPC curves of PE/rGO1, PE/rGO2, and PE/rGO3 (Polymerization temp.: 40°C, [Al]/[Ti] = 100)

Table S1. Molecular Weight of PE/rGO1, PE/rGO2, and PE/rGO3 (Polymerization temp.: 40°C, [Al]/[Ti] = 100)

Samples	Mw ( $\times 10^4$ g/mol)	MWD
PE/rGO1	67.1	9.3
PE/rGO2	53.1	6.7
PE/rGO3	77.8	9.4

Reaction between GO and RMgCl

