

Layered Double Hydroxide (MgFeAl-LDH)-Based Polypropylene (PP) Nanocomposite: Mechanical Properties and Thermal Degradation

Sajid Naseem ^{1,2 *}, Sven Wießner ^{1,2}, Ines Kühnert ¹, Andreas Leuteritz ¹

¹ Leibniz-Institut für Polymerforschung Dresden e.V., Hohe Straße 6, 01069 Dresden, Germany; naseem@ipfdd.de (S.N.); wiessner@ipfdd.de (S.W.); kuehnert@ipfdd.de (I.K.); leuteritz@ipfdd.de (A.L.)

² Institute of Materials Science, Technische Universität Dresden, 01062 Dresden, Germany

* Correspondence: naseem@ipfdd.de; Tel.: +49 351 4658 689

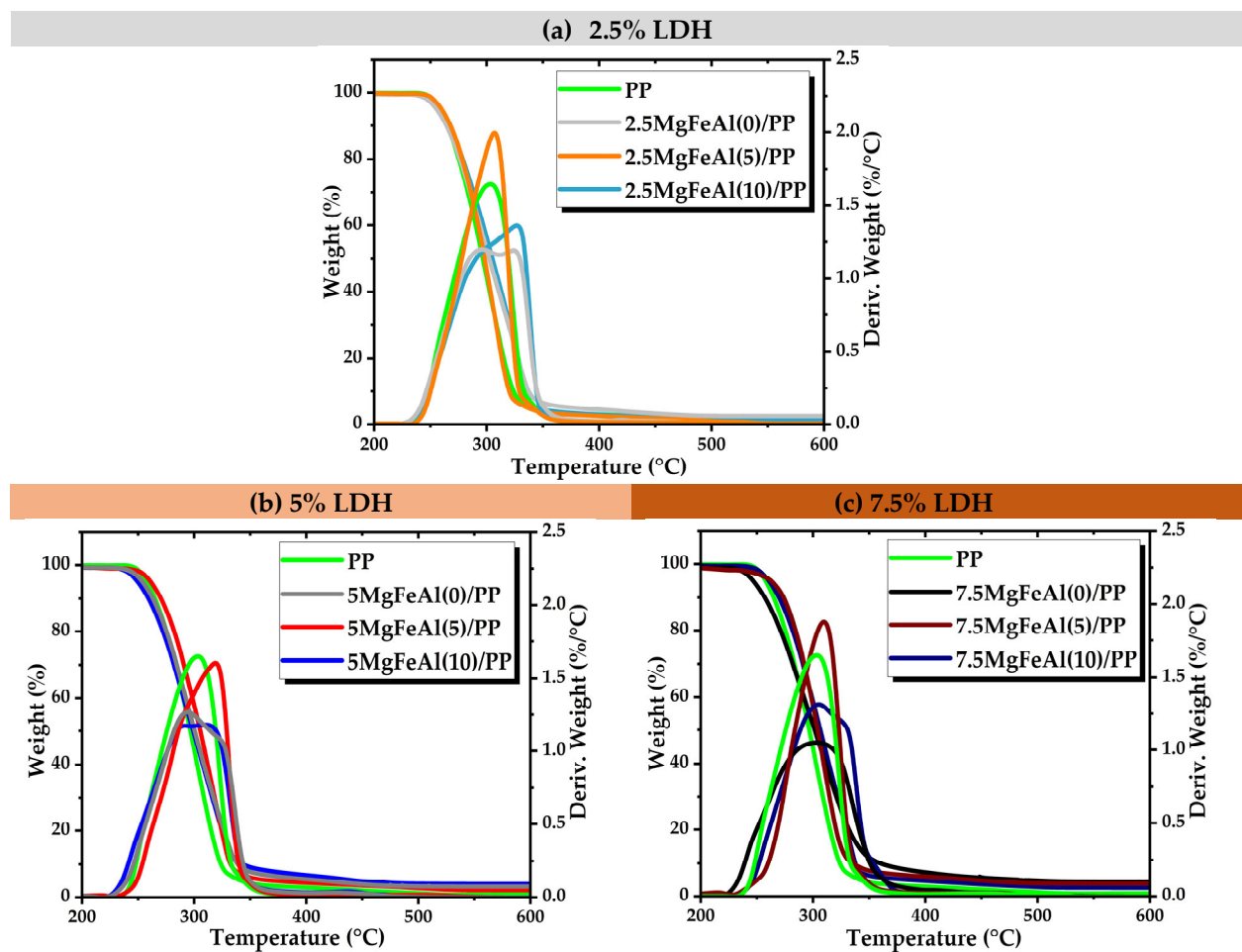
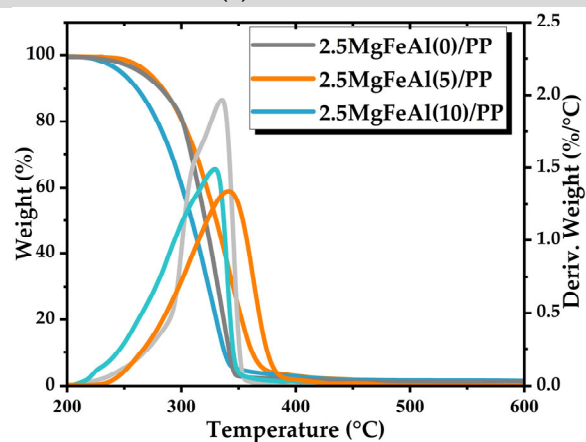
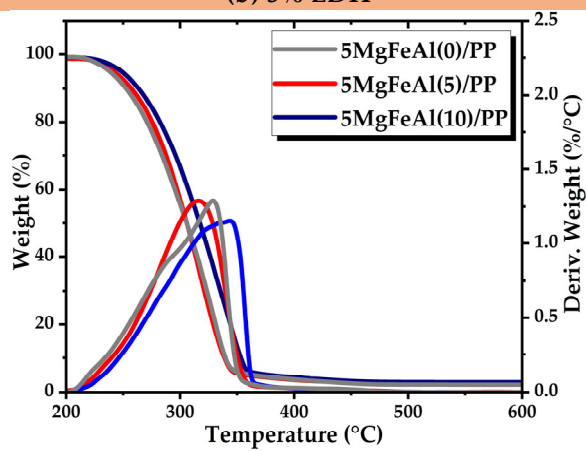


Figure S1. TGA analysis of different LDH/PP nanocomposites in nitrogen environment showing the effect of amount of Fe (a) 2.5 % LDH (b) 5% LDH (c) 7.5% LDH

(a) 2.5% LDH



(b) 5% LDH



(c) 7.5% LDH

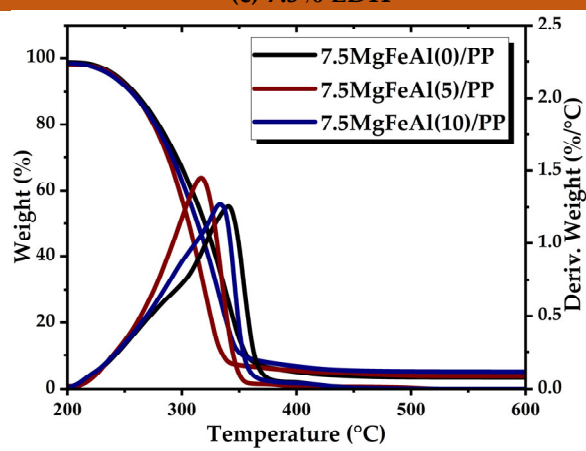


Figure S2. TGA analysis of different LDH/PP nanocomposites in air environment showing the effect of amount of Fe (a) 2.5 % LDH (b) 5% LDH (c) 7.5% LDH.