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Fabrication of Polymer Composites from NORM-Phosphogypsum and Thermoplastics in Vietnam: Processing, Properties and Applications

Vietnam has a large agricultural industry and is producing considerable amounts of phospahte fertilizer domestically. Approximately 1,000,000 tons NORM-phosphogypsum byproduct occure in Vietnam from domestic phosphate rock processing to mineral fertilizer at the DinhVu plant every year. This study presents the main constituent of these phosphogypsum particles (PPGS) provided by Dinh Vu DAP fertilizer plant, Hai Phong, Vietnam. The paper reviews a number of studies using PPGS granules as fillers for thermoplastics such as PVC, PE, PP, EVA and the potential applications in the field of polymer composite material manufacturing in Vietnam. The paper also mentions the biodegradability of PPGS and its composites.

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