

# **The study of using vetiver grass as a filler in polypropylene composites**

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**Source:** *Annual Technical Conference - ANTEC, Conference Proceedings, v 2, ANTEC 2004 - Annual Technical Conference Proceedings, Volume 2:Materials, 2004, p 1641-1645*

**Abstract:** The vetiver-polypropylene (PP) composites were prepared at various ratios of vetiver contents. Vetiver grass was prepared as vetiver leaves and vetiver fiber. The effect of vetiver contents on thermal, rheological, mechanical and morphological properties of the composites were studied. Vetiver grass was treated by chemical treatments and the effect of chemical treatments on these properties was elucidated.

**Ei controlled terms:** Composite materials - Polypropylenes - Fillers - Rheology - Morphology - Wear of materials - Biodegradation - Soil conservation - Sodium compounds - Solutions - Injection molding - Molecular weight - Elastic moduli - Thermogravimetric analysis