

## **78. Ultraviolet Weathering PVC and Wood Flour Filled PVC Composite Thin Films.**

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### **ABSTRACT**

Thin films of Polyviyl Chloride (PVC) and PVC filled with wood flour at different weight percent (5,15,30,45%) were exposed with UV radition for different time intervals. The performance chateristics of unexposed and exposed thin films in terms of tensile strength, percent elongation at break as a function of filler concentration and exposer time were recorded. Decrease in tensile strength and percent elongation at break with increase in in wood flour concentration and exposer time were observed. The samples were chaterised by XRD , FTIR and SEM. An attempt was made to explain the results obtained.

**Keywords:** PVC/Wood flour thin films, Composite, Tensile strength, Percent elongation at break ,XRD, FTIR, SEM.