

# Compatibilizing Effect of Nanoclay in EVA and LDPE Blend System

Satyam Yadav, K.N. Pandey, A.V.Ullas, Abrar Ahamad and R.M. Mishra

*Central Institute of Plastic Engineering and Technology, Lucknow- 226005, India  
E-mail: satyam11690@gmail.com*

---

**Abstract**—*This research work explores the effect of nanoclay on the properties of immiscible blend system based on EVA and LDPE. FTIR results confirm the interaction between polymer blend and nanoclay, Morphology of the nanocomposites are analyzed by Scanning Electron Microscope. In nanocomposites, it has been seen there is a reduction in average disperse domain sizes in the presence of nanoclay. Incorporation of nanoclay brings compatibility in between the blend system and results in improved mechanical & thermal properties than that of the pure blend system.*

**Keywords:** *EVA, LDPE, blends*