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Synthesize and characterization of fly ash based nanocomposites

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The composite phenomenon helps us to achieve desired properties in the material. Inclusion of nano-sized particles is influence significantly in building the desired properties of composite. Such inclusion is in practice in MMC, PMC as well as CMC. This research focuses the stiffness building phenomenon in the Aramid/E-Glass polymer composite. The inclusion of nano sized fly ash particles is preferred to built up stiffness property in the Aramid/E-Glass polymer matrix composite. The inclusion of nano particles of fly ash varied from 0%, 1%, 2%, 3%, 4% and 5%. The nanocomposites were characterized by Impact, flexural and tensile test as per applicable standard. The percentage of nano particles of fly ash inclusion is directly proportionate to the building the stiffness of nano-composite.

Topics

[Polymers](#), [Nanocomposites](#), [Nanoparticle](#)

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