

# Tensile Properties of Polyethylene Composites Based Kaolin Geo-Filler

## **Abstract**

The current work studies the tensile properties of polyethylene composites-based kaolin geo-filler. Polyethylene composites was prepared based on kaolin geo-filler at different loading content varies from 0,2,4,6,8 and 10 wt%. The optimum results were compared with polyethylene composites based on raw kaolin to study the effect both filler on tensile properties. Tensile test was conducted according to ASTM D638. Based on these research studies, the use of kaolin geo-filler is effectively improved the tensile properties of polyethylene as compared to the raw kaolin filler. As the result, 8% of kaolin geo-filler content demonstrate the optimum formulation to enhance the tensile properties of polyethylene composites.