

## **PLASTICS IN AUTOMOBILES FOR LESS FUEL CONSUMPTION AND GREENER ENVIRONMENT**

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### **Abstract**

This paper “Plastics in automobile for less fuel consumption and greener environment”, aims to emphasize the use of plastic materials in automobile industry, to improve the fuel efficiency, reduce the cost of the vehicle and at the same time provide similar comfort and safety, when compared with the conventional metals; and also protecting the environment by reducing the emissions because of lesser fuel consumption. The paper focuses alternatives available to engineers to assess the plastics technology in automobile Industry. The selection of a particular part to be manufactured in plastics should be done by detailed design and engineering study of the part requirement and functionality, based on plastics material, annual requirements, service environment, component geometry and consequences of component applications. There is a growing need for having lesser fuel consumption in a vehicle as the fuel (natural oil / gas) is getting shorter / scarce in nature; at the same time it is polluting the environment. There is a necessity to have a good proven plastics product design, in Automobile Industry. The contents of this paper starts with the introduction to the automotive industry with changing time and later moves into the actual details of why using plastics as a replacement to other conventional materials.

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