

Carbon Footprint of Blowmoulded Plastic Parts-Case Study on Automotive Industry

Authors : Mădălina Elena Mavrodin, Gabriela Andreea Despesu, Gheorghe Lăzăroiu

Abstract : Long term trend of global warming has brought a very deep interest in climate change, which is due most likely to increasing concentrations of anthropogenic greenhouse gases. Of these, particular attention is paid to carbon dioxide, which has led in desire for obtaining carbon footprint products. Automotive industry is one of the world's most important economic sectors with a great impact over the environment through all range of activities. Its impact over the environment has been studied, researcher trying as much as possible to reduce it and to offer environmental friendly solution for the using, but also manufacturing cars. In the global endeavour to meet the international commitments in order to reduce the greenhouse gas emissions, many companies integrate environmental issues into their management systems, with potential effects in their entire production chains. Several tools and calculators have been developed to measure the environmental impact of a product in the life cycle perspective of the whole product chain. There were a lot of ways to obtain the carbon footprint of driving a car, but the total carbon footprint of a car includes also the carbon footprint of all the components and accessories. In the automotive industry, one of the challenges is to calculate the carbon footprint of a car from 'cradle to grave'; this meaning not only for driving the car, but also manufacturing it, so there can be an overview over the entire process of production.

Keywords : carbon footprint, global warming potential, greenhouse gases, manufacture, plastic air ducts

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