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This activity is known as the plastic recycling process. The goal of recycling plastic is to reduce high rates of plastic pollution while putting less pressure on virgin materials to produce brand new plastic products. This approach helps to conserve resources and diverts plastics from landfills or unintended destinations such as oceans.

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PLASTICS PRODUCT AND PROCESS DESIGN STRATEGIES

A CHECKLIST FOR PLASTIC PRODUCT DESIGN

When plastic injection molders are involved early in the part design process including prototype development and mold flow analysis, many cost and time efficiencies will be realized. Designing a plastic part for manufacturability from the outset involves several considerations that can ultimately have a significant impact on key variables.

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Injection molding is a plastic manufacturing process to achieve high production rate. During injection moulding molten thermoplastic is injected into a mold and high pressure is applied. As a result desired plastic shape is achieved inside the mold. After solidification of molten plastic, finished part it is injected out of mold.

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7 Common Elements Caught in the Design for Manufacturing ...

The aim of this thesis work is to do a research of possible errors in a design process of an injection molded plastic part and to compile a checklist, which contributes to preventing unanticipated failures. The principal reasoning behind the list is to increase the overall quality of a plastic product.

A CHECKLIST FOR PLASTIC PRODUCT DESIGN

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Design for recycling is an eco-design strategy. Eco-design is a systematic approach allowing the design of more environmentally friendly products. For a company with a strategy to reduce its environmental impacts, the first stage is to review all the processes intervening in the design of a product and to find solutions to reduce the impacts on the product's life cycle.

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