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that Product. The product and Die is Designed with the help of CAD software (Creo2.0). After analysing the product, the most significant part is mathematical modelling of mould. In mathematical modelling we determine the number of cavities in the mould.

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is how the plastic is filling in the mould. In the mould injection filling ...

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1. Injection Molding 1.1 Injection machine The injection machine is a machine that melt plasticize the molding material inside the heating cylinder and inject this into the mold tool to create the molded product by solidifying inside it. The injection machine is constructed of a mold clamping device that opens and closes the mold tool, and

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Formula:- 1) Shot capacity (w) = swept volume x  $\rho$  x C: Where,  $\rho$ = density of plastic at normal temperature (available from manufactures literature) C= 0.35 for crystalline plastics C= 0.95 for amorphous plastics\* Shot Capacity (w) =100 x 1.45 x 0.95 w =137.75 gm. 2) Determination of

Regression modeling is used to determine the relation between input and output variables of the injection molding process. For

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modeling the process different mathematical functions including linear polynomial, Quadratic polynomial and logarithmic are used. These models are modified using step backward elimination method with 95% CL in Minitab

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