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Effect of Processing Parameters on the Quality of Injection Stretch Blow Moulded Products

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The injection stretch blow moulding (ISBM) process is used for the manufacture of hollow plastic products such as containers and bottles. While the preform and mould design are of utmost importance in achieving high quality products, processing variables need to be optimised to achieve the desired outcome.

In this study, the Response Surface Methodology (RSM) is employed to determine the effect of processing parameters on the product quality by controlling the deformation behaviour of the perform.