

ABSTRACT

This research will discuss about quality improvement and prevention of PP (15cm X 30cm) defect. Product is selected based on kind of plastic which is the most ordered by customer and percentage of number of defectives on January – December 2015. Percentage of number of defectives has an average above tolerance limit 1%. Therefore it would done quality improvement with six sigma method to eliminating or minimizing defective product.

Six sigma method has 5 stages there are Define, Measure, Analyze, Improve, and Control (DMAIC). At define stage, will be identified 2 pieces CTQ affecting the quality. At measure stage has known that the production process is not stable and the capabilities of the process is shown by the level sigma 4.1670 with DPMO sigma 3867,12. At analyze stage has found 2 causes of defectives product that will be priority for improvement. Factors that cause defectives product are machine factor and material factor. The proposed improvement is considering maximum number of stack, create rod cover on press machine.

Keyword: CTQ, PP (15cm X 30cm), six sigma, DMAI.