

QUANTITATIVE AND QUALITATIVE ANALYSIS OF QUALITY DATA APPLICABLE TO POLYPROPYLENE WOVEN SACKS

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This Paper is a Statistical Study of the quality of polypropylene woven sacks, manufactured at Mikechris Industries Ltd., Seeduwa, conforming to internationally accepted standards.

The study has two main aims : (i) to construct quality control charts; (ii) to prepare optimum sampling plans.

In the construction of quality control charts, mean and range charts were employed.

The optimum sampling size is established by making use of the Military Standards, and Dode and Romig L T P D System. Further, past information on the behaviour of the process and economy are made use of to develop Bayesian sampling schemes. Tables giving the critical values and the optimum sample size as applicable to the above product covering appropriate ranges of values of various parameters have been prepared.