



CHAPTER 8

FURTHER SCOPE OF RESEARCH

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8.1 SUGGESTIONS FOR FURTHER RESEARCH WORK

This work has identified requirements of various modifications in the commingling machine to produce commingled hybrid yarns and effect of processing parameters on its commingling characteristics. Some of the requirements of commingling machine are quite different, While processing hybrid yarns for high performance applications.

The production of various types of specialty yarns for technical applications using available yarn manufacturing systems is possible with some modifications. Hence, there is a vast scope to extend research in this field. The various studies can be focused such as:

- ❖ Potential of verities of hybrid yarns using different combination of glass/polyester, glass/nylon, kevlar/polyester, kevlar/polypropylene etc.
- ❖ Studies on effect of heating on glass filaments opening and behaviour during commingling process.
- ❖ Different nozzle geometry, its flow behaviour and effect on commingling behaviour.
- ❖ Studies on preform studies made out of hybrid yarn using different combination in one structure or in different structure.
- ❖ Correlation between commingled yarn properties and final composite behaviour of hybrid yarn.