

LIST OF TABLES

	Page
Table 2.1 : Ratio variation of glycolysis conversion	13
Table 2.2 : Variation in parameters used in the PET glycolysis	15
Table 2.3 : Influence of equivalent weight ratio of PET:Gly on conversion of recycled PET flakes at 210 °C and glycolysis of 2 hours	19
Table 2.4 : Influence of glycolysis temperature on conversion of recycled PET flakes	21
Table 2.5 : Influence of glycolysis time on conversion of recycled PET flakes	23
Table 2.6 : Hydroxyl value (OH _v), acid value (Av), water content and number average molecular weight,(M _w) of the glycolysed PET	25
Table 3.1 : Composition of polyol mixture containing glycolysed PET polyol FA-703	40
Table 3.2 : Typical amount of component-A for flexible foam	41
Table 3.3 : Variation of isocyanate index	42
Table 3.4 : Variation of percentage of glycolysed PET in polyol mixture	43
Table 3.5 : Hydroxyl value of polyol mixture	49
Table 3.6 : Polyol formulation	51
Table 3.7 : Reactivity during foam formation	64
Table 3.8 : Comparison of foam density and compression strength with previous study	67