

**LIST OF TABLES**

Table 2.1	Some examples of PEO-based electrolytes	10
Table 2.2	Examples of lithium salts used in polymer electrolytes	14
Table 2.3	Examples of polymer composite electrolytes	16
Table 3.1	Compositions of PEO:LiI	23
Table 3.2	Compositions of PEO:LiI:Al <sub>2</sub> O <sub>3</sub>	24
Table 3.3	Compositions of PEO:LiI:Calix	26
Table 3.4	FTIR vibrational bands of PEO systems	29
Table 4.1	Shifting of peaks at different wt.% of LiI	46
Table 4.2	Shifting of C-O-C peak	54
Table 4.3	Shifting of crystallinity peak	56
Table 6.1	Ionic conductivity of PEO-LiI system from room temperature To 100°C	103
Table 6.2	Conductivity values for PEO-LiI-Al <sub>2</sub> O <sub>3</sub> room temperature to 100°C	120
Table 6.3	The conductivity values for PEO:LiI: calix4 (1wt% to 5 wt%) RT to 100°C	126
Table 6.4	The conductivity values for PEO:LiI:calix6(1wt% to 5 wt%) RT to 100°C	126

