

## **Abstract**

This research is studied to reduce number of cracked defects of a connector. The injection molding parameters that affect the strength of samples are temperatures, pressure and time, particularly at the weld line. Liquid Crystal Polymer (LCP) was used in the experiment. The experimental results showed that the injection temperature of 325 °C is suitable. Other changes are the mold temperature increased from 70 to 85 °C, injection pressure reduced from 55 to 50 MPa and speed of injection decreased from 3 to 5 levels at 20, 30, 15, 90, 20 mm/s. As a result, the defect percentage of connector could be reduced by more than 90%.