

### 3.5.1 Tensile testing

Tensile test is a fundamental of mechanical testing commonly used to determine tensile properties which indicate how the material will react to forces being applied in tension. This test is conducted by means of prepared specimen is loaded in a very controlled manner while measuring the applied load and the elongation of the specimen over some distance. In this study, tensile tests are used to determine tensile properties in terms of tensile strength and modulus of elasticity.



**Figure 3.5:** Scanning Electron Microscope (SEM)

**Bold, 11point, single spacing**

As mention earlier, there are two types of composites had been prepared for experimental studied. Different kinds of pineapple fibres were mixed with polymers by means of 10% fibers loading. Table 3.2 indicates the various bio-composites samples.

**Table 3.2:** Bio-composite samples

No.	Samples (10% - 90%wt)	Type of composites
1.	PP (100% wt)	
2.	PALF (Maspine) + PP	Pineapple Leaf Fibers reinforced polypropelene composite
3.	PALF (Josapine) + PP	
4.	PALF ( N36)	