



**A.** The plastic waste prepared upstream is melted and liquefied to remove solid contaminants such as labels.

**B.** In the reactor, the microwaves action heats the liquid to a very high temperature. The polystyrene chains are then broken and the styrene monomer is released.

**C.** The liquid monomer is then purified in a distillation column to reach 99.8% purity, identical to the virgin product.