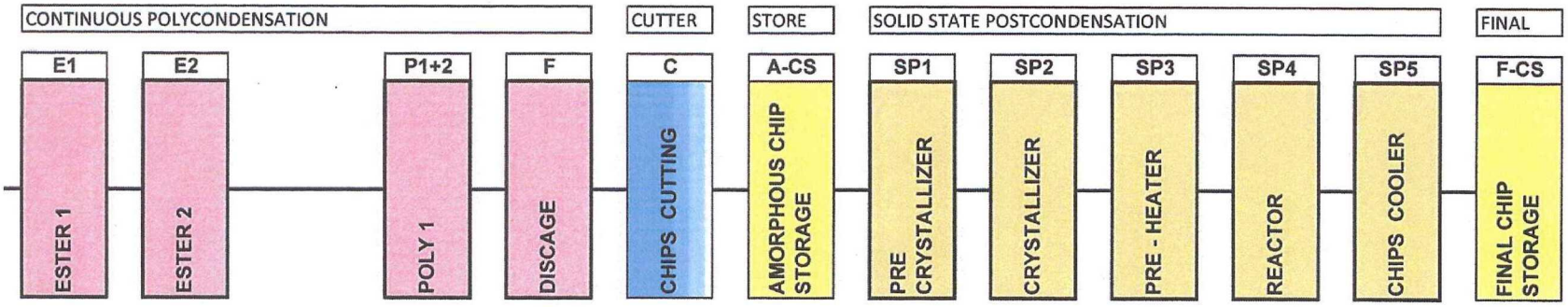
MTR Process Vs Conventional Technology

Conventional Process -

CP- 4R + SSP

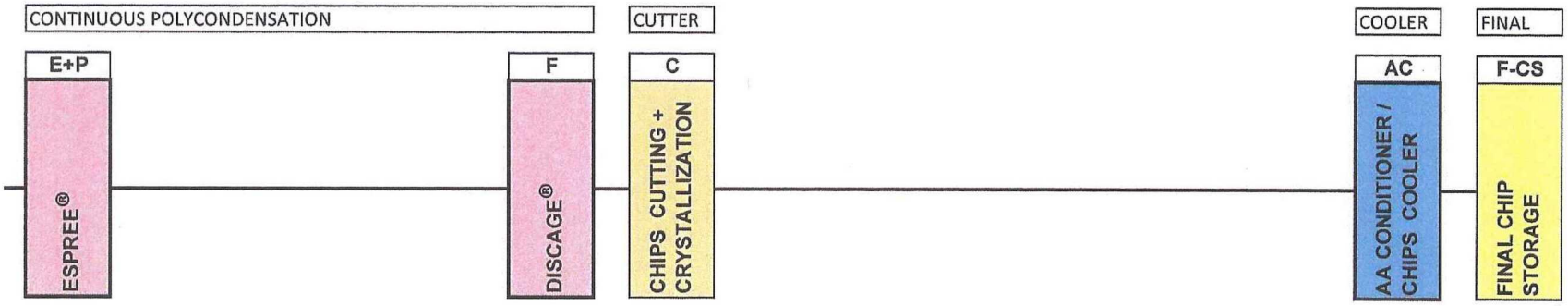


- <u>Conventional Process 4/5R + SSP –</u>
  - High Residence times
  - High temperature processing
  - Higher degradation and thermal stresses on product

MTR Process Vs Conventional Technology

MTR Process -

CP- 2R MTR®



MTR Process (without SSP) Advantages –

- Lower residence time resulting in minimal generation of secondary products & cross linked polymers
- More stable parameters – consistency in product quality
- Lower Crystallinity – Better strength and lower energy requirements during downstream processing
- Lower temperature processing - less thermal degradation , reduced AA regeneration and minimum secondary products generation
- Spherical shape of pellets – Lower dust generation and lower IV drop during downstream processing
- Lower thermal heat stress – Reduced haze due to less carboxyl end group and low thermal degradation
- Narrow processing window – Due to narrow molecular weight distribution and improved process-ability