

## Linear Low-Density Polyethylene (LLDPE) Unit

**FAST FACTS****LOCATION**

Sasol Lake Charles West Plant  
Calcasieu Parish, Louisiana, USA

**COMMISSIONED**

2019

**NAMEPLATE CAPACITY**

470,000 tons per year (470 ktpa)

**FEEDSTOCK**

Ethylene

**TECHNOLOGY**

Univation UNIPOL™ PE Process

**PRODUCT FORM**

Pellets

**CUSTOMER BASE**

Global

**PROCESS**

In a continuous process, ethylene in gas form is purified and put into a reactor which uses pressure and temperature to assemble ethylene molecules into linear low-density polyethylene in a powder form. The powder is then melted in an extruder to create a thick fluid, then forced through a die plate – a large metal plate with thousands of small holes – and finally cut underwater into pellets. The pellets are then dried and ready for transport.

**OUTBOUND LOGISTICS**

Pellets are loaded into railcars and transported via rail either directly to North American customers or to packaging facilities where they are bagged in 25-kilogram (55-pound) bags, loaded into containers and shipped to customers worldwide.

**END USES**

LLDPE is used to make products like films and packaging.



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January 2019