

## Gas separation membranes

CO<sub>2</sub> can selectively pass through gas separation membranes, allowing CO<sub>2</sub> to be removed from the feed gas.

CO<sub>2</sub>CRC trials aim to:

- » test a number of gas separation membrane strategies (for example, removing H<sub>2</sub> first, then the CO<sub>2</sub> second);
- » investigate the influence syngas and minor gas components have on membrane performance and plasticization; and
- » investigate the separation performance of a number of molecular sieving membranes at high temperatures. These membranes separate gases based on their size. They are particularly suited for use when the process includes a water gas shift reaction which will maximise CO<sub>2</sub> capture.

### Gas separation membrane flatsheet module

