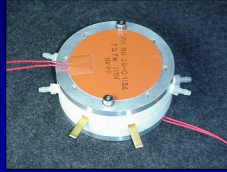


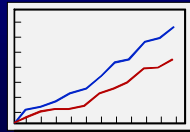
This presentation evaluates composite materials for the bipolar plates of fuel cells



Role of bipolar plates in fuel cells



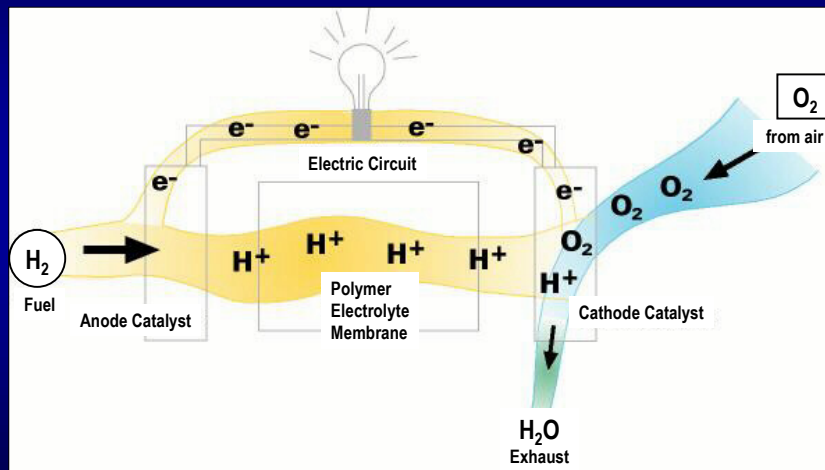
Comparison of bipolar plate materials



Comparison of bipolar plate performance



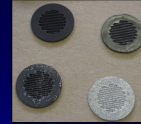
Fuel cells are devices for energy conversion



[Breakthrough Technologies Institute/Fuel Cells 2000]



Composite materials are ideal for bipolar plates



Advantages

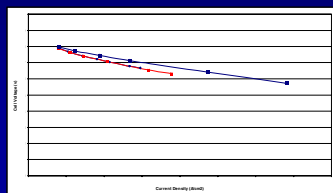
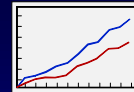
- Easy to shape
- Light in weight
- Resistant to corrosion

Disadvantages

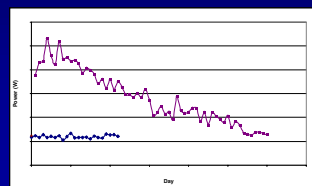
- Low conductivity
- High cost (at present)



There are three methods for bipolar plate evaluation



Polarization Curves



Power Curves



Visual Inspection

