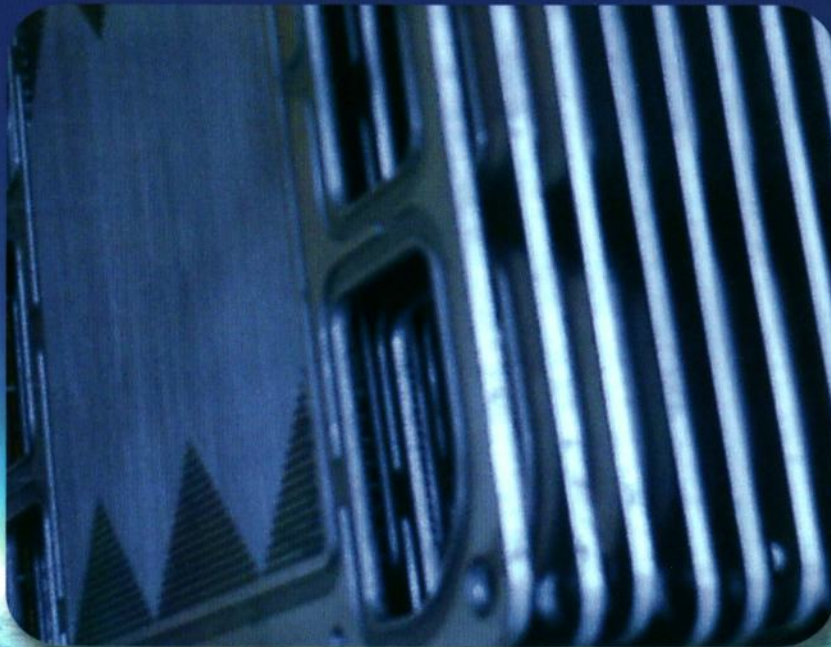


# Composite Bipolar Plates for PEMFC



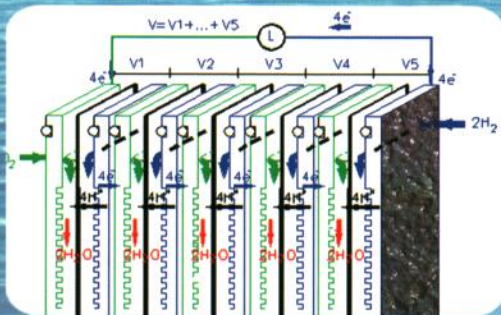
Bipolar plates for PEMFC



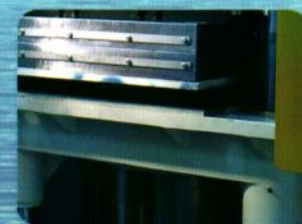
Bipolar plates Surface



Tensile strength test



Proton Exchange Membrane Fuel Cell



Thermosetting Resin Injection molding

- Low cost
- High production capability
- High conductivity
- High durability
- Corrosion resistant

Conductivity, S/cm Through plane	>100
Gas Impermeability, $10^{-6} \text{cm}^3/\text{cm}^2 \text{sec}$ , H <sub>2</sub>	<2
Corrosion, $\mu\text{A}/\text{cm}^2$	<16
Tensile Strength, psi	>3000
Flexural Strength, psi	>4000