

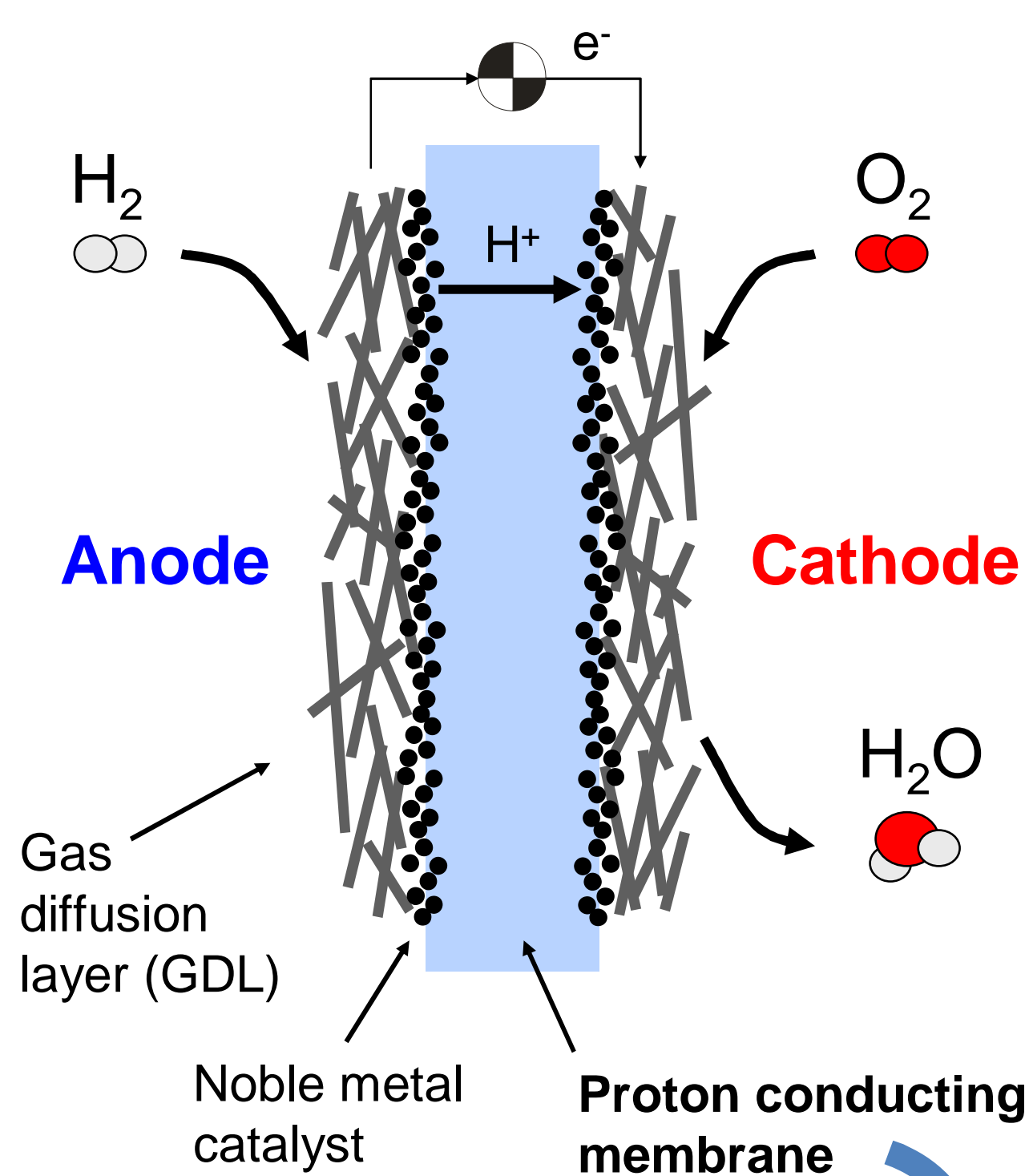
# Insights into Processing-Properties-Performance (3P) Relationships in Radiation Grafted Fuel Cell Membranes

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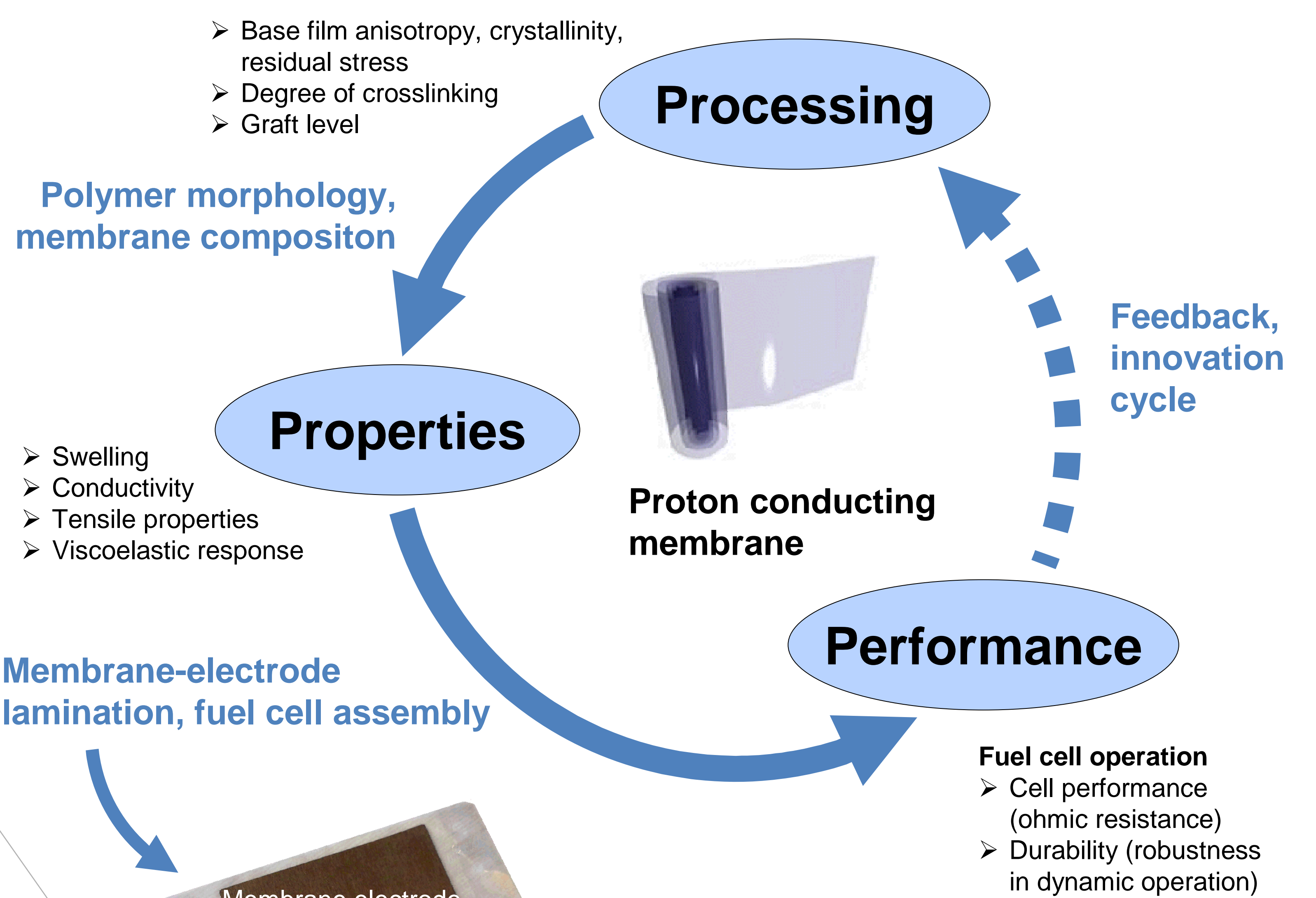
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## The Polymer Electrolyte Fuel Cell (PEFC)

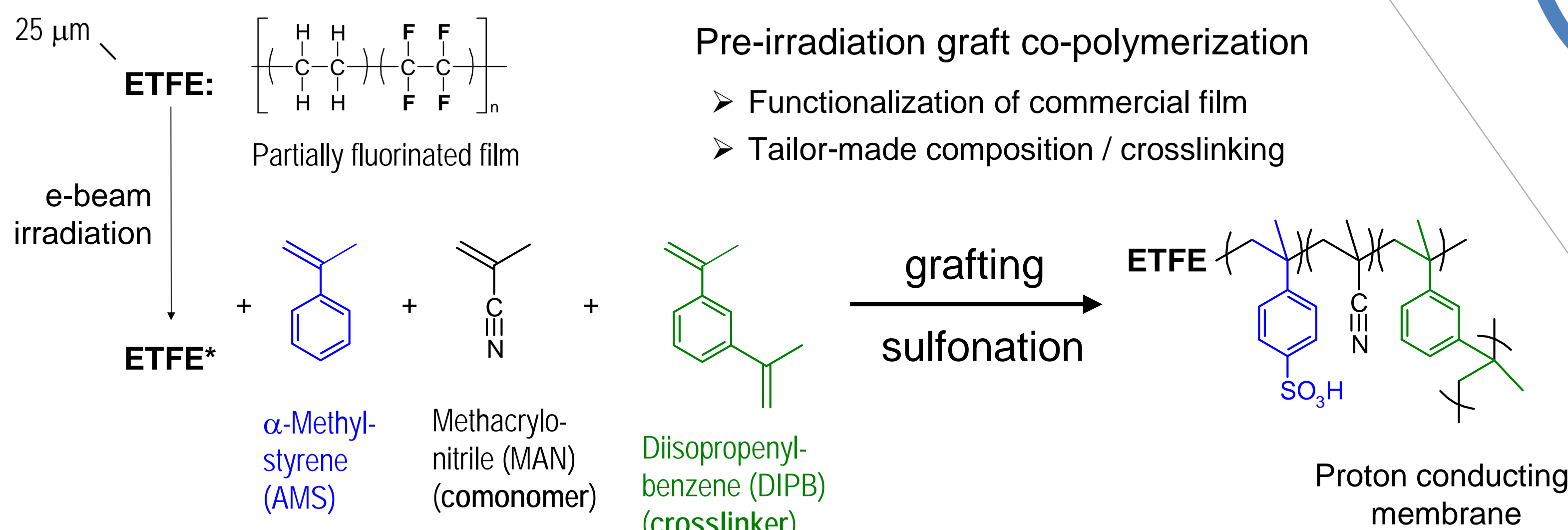


- The PEFC is a **clean** and **efficient** electrochemical energy conversion device
- The electrolyte is a **proton-conducting polymer** membrane with thickness around 30 μm
- Current challenges: **durability** and **cost**
- **Radiation grafted membranes** are potentially cost-effective and can be tailor-made to exhibit a wide range of properties

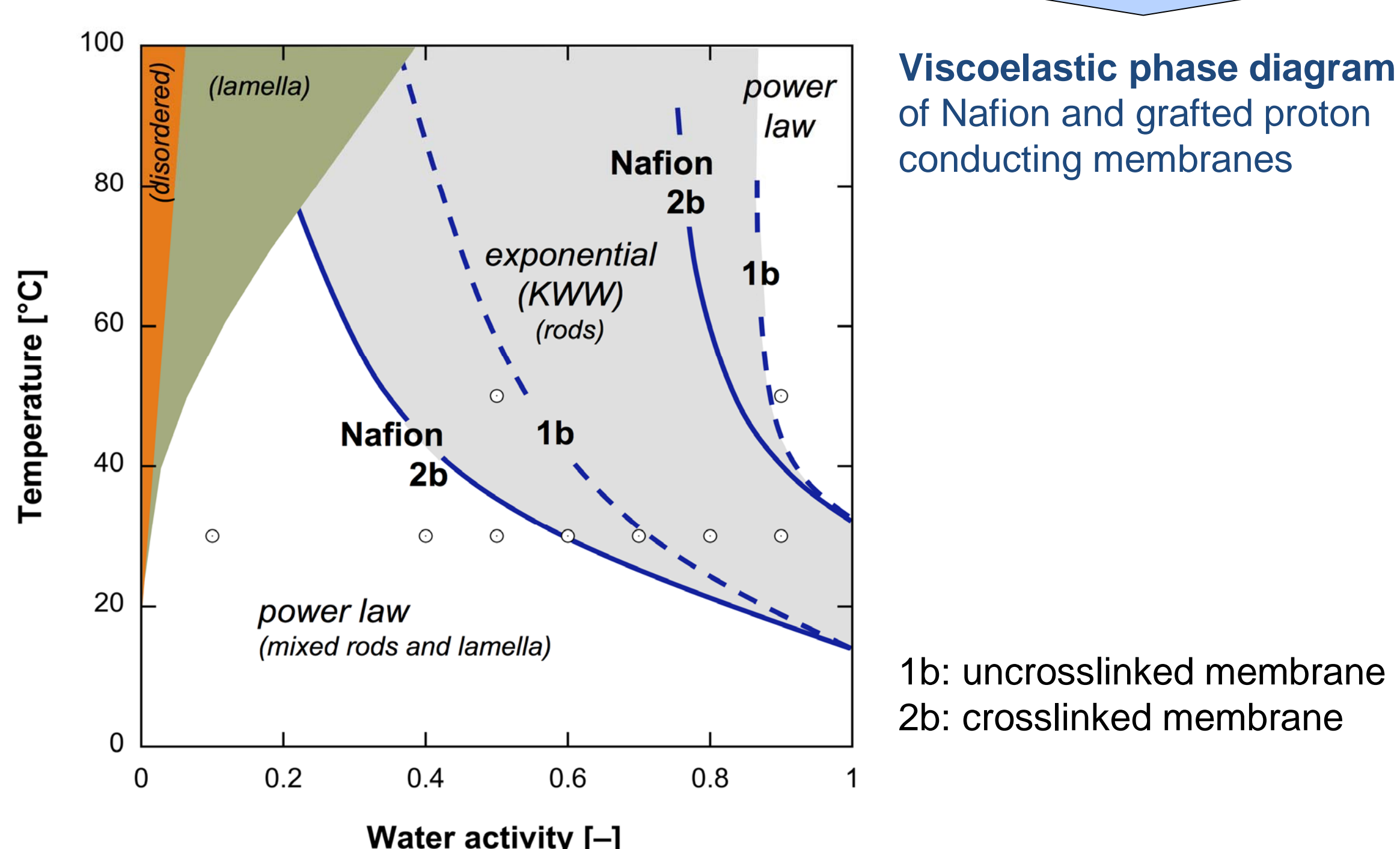
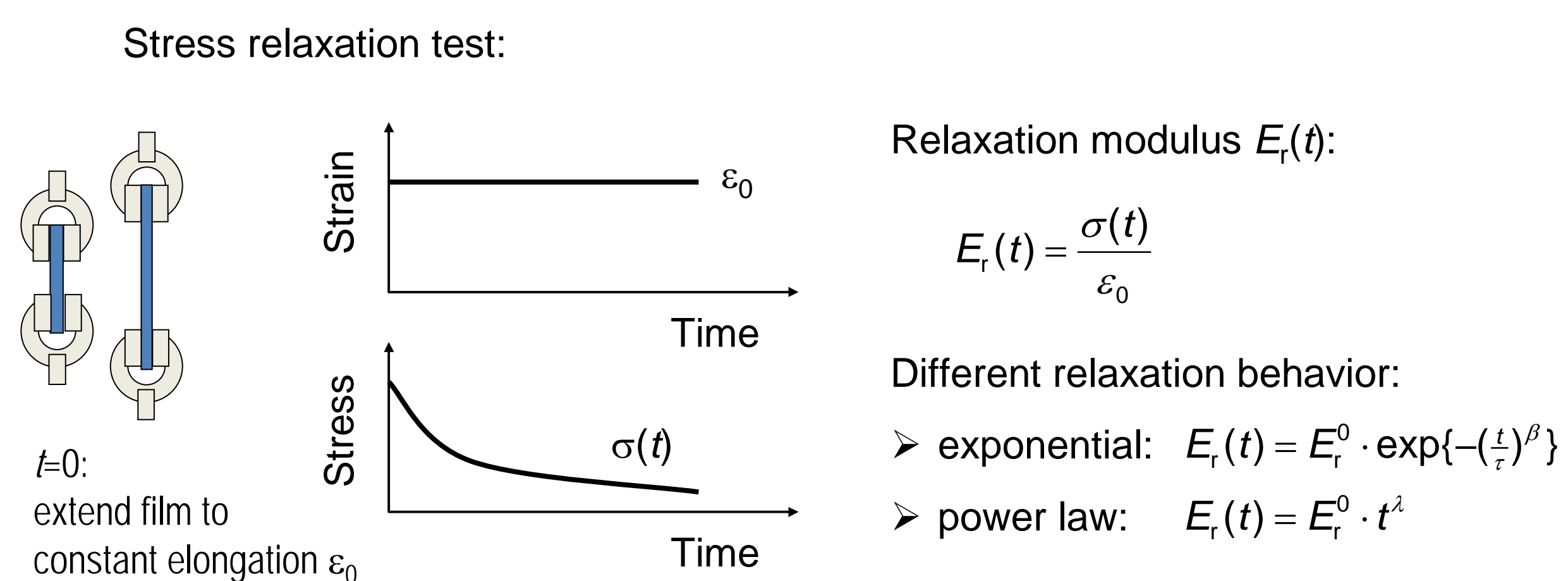
## Mission in GreenPower



## Radiation Grafted Membranes



## Viscoelastic Properties



## Fuel Cell Performance & Durability

