What keeps the lung inflated at end-expiration?

1. The negative Ppl

2. Alveolar surfactant
   (phospholipid secreted by alveolar type II cells)

The alveolar air-water interface

Air-water interfacial tension

Laplace: if Palv constant, 
\[ T \propto \frac{1}{\text{Alveolar radius}} \]
Alveolar surfactant decreases air-water tension

Lung volumes

- Residual volume
- Functional residual capacity
- Inspiratory volume
- Total lung capacity
- Tidal volume (500 ml)