

Straight cylindrical pores

Slanted cylindrical pores

Non uniform sections

Non-uniform sections with possible constrictions

Material morphology and number of parameters



Model and parameter examples

Zwikker-Kosten  
 $\phi \sigma = \eta/k_0$

Miki  
 $\phi \sigma \alpha_\infty$

Attenborough  
 $\phi \sigma \alpha_\infty b$

Wilson  
 $\rho_\infty \tau_{\text{vor}} K_\infty \tau_{\text{ent}}$

Johnson-Champoux-Allard  
 $\phi \sigma \alpha_\infty \Lambda \Lambda' k'_0$

Johnson-Champoux-Allard-Pride-Lafarge  
 $\phi \sigma \alpha_\infty \Lambda \alpha_0 \Lambda' k'_0 \alpha'_0$