

GSA DATA REPOSITORY 2015245 Duretz et al.

$log_{10}\eta$ after 100% extension

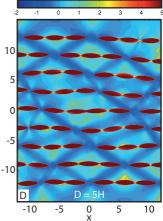


Figure DR-1 impact of the matrix thickness (i)) on the model exclution. The viscosity fields are abound to FSM columbate identions. The reference model (i) = 0.5H) is shown in A) whereas models using an initial sityle spacing of 114, 24, and SH are respectively displayed in ganaks (B), C), and D). Models were initialized using an initial situacidal perturbation, stress exponent of the layer is in-34, and a reference viscosity contrast of 50. Localized shares zones preferably develop when the initial layer spacing is smaller than the layer thickness.

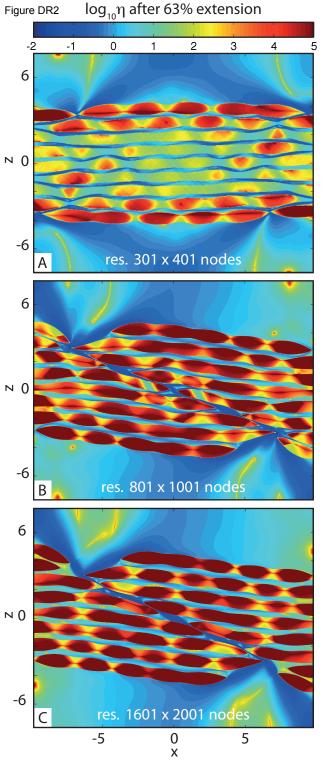


Figure DR2. Impact of the numerical resolution on the model results. The color palette corresponds to the viscosity field after 63% bulk extension. The power-law stress exponent of the matrix is n=5 and in the layers is n=25. The initial viscosity contrast was 30 and necking was initialized with a sinusoidal perturbation. The low-resolution model (panel A) produces significantly different results than the reference model (panel B). Higher resolution (panel C) exhibits a behavior similar to that of the moderate resolution model (panel B), which indicates that the model results converge with decreasing grid spacing.