Example 4.3

Determine time necessary for the filtration of 50 m^3 of slurry in a plate and frame filter press with 25 frames of dimension 1 m×1 m×0.035 m. Pump characteristics are provided on a separate plot.

Other Information:
$\alpha = 1.069 \times 10^{11}$ m/kg
$R_M = 6.462 \times 10^{10}$ /m
$\mu = 0.001$ N/m^2
$\rho_C = 10.037$ kg/m^3
$\gamma = 0.0116$ m^3 cake formed/m^3 filtrate