$M = 0.2 M_{\odot}$ X = 0.70 Z = 0.03 $\gamma = 1.67$ 4.2 ×10²⁹ 15 × 10⁴ (a) mass (b) mass density 4 $\rho \text{ [kg/m}^3]$ 2 3.8 ≥ 3.6 3.4 3.2 0 0.2 0.6 0.2 0.4 8.0 0 0.4 0.6 0.8 0 r/R_s [-] r/R_s [-] 8 ×10⁶ ×10¹⁵ (c) pressure (d) temperature 15 6 10 5 2 0 0 0.2 0 0.4 0.6 8.0 0 0.2 0.4 0.6 0.8 r/R_s [-] r/R_s [-] 3 ×10²⁴ (e) luminosity (f) opacity 3 2.5 $\log \kappa \, [\mathrm{m}^2/\mathrm{kg}]$ 2 2 [M] 1.5 0 0.5 0.2 0.4 0.6 8.0 0 0.2 0.4 0.6 0.8 1 0 r/R_s [-] r/R_s [-]