12.49
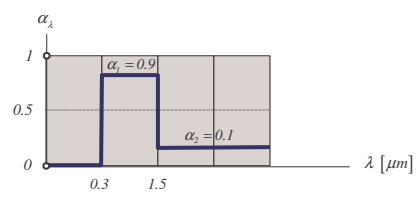

$T_b = 5800K$

$\alpha = \alpha_1 \cdot F_{0.3 \to 1.5}(T_b) + \alpha_2 \cdot F_{1.5 \to \infty}(T_b) = (0.9)\cdot(0.881\text{-}0.0326)+(0.1)\cdot(1\text{-}0.881) = 0.775$

$T_s = 340K$

$\varepsilon = \alpha_1 \cdot F_{0.3 \to 1.5}(T_s) + \alpha_2 \cdot F_{1.5 \to \infty}(T_s) = (0.9)\cdot(0\text{-}0)+(0.1)\cdot(1\text{-}0) = 0.1$