

$$\begin{aligned}\% \text{ crystallinity} &= \frac{\rho_c (\rho_s - \rho_a)}{\rho_s (\rho_c - \rho_a)} \times 100 \\ &= \frac{(1.450 \text{ g/cm}^3)(1.382 \text{ g/cm}^3 - 1.300 \text{ g/cm}^3)}{(1.382 \text{ g/cm}^3)(1.450 \text{ g/cm}^3 - 1.300 \text{ g/cm}^3)} \times 100 \\ &= 57.4\%\end{aligned}$$