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APPENDIX

The heat of fusion (H_f) can be converted to the percentage of crystalline by using the following equation ;

$$\begin{aligned} X \% &= 100 \times \Delta H_f / \Delta H_f^\circ \\ X \% &= \text{the percentage of crystallinity} \\ \Delta H_f &= \text{the heat of fusion from DSC thermogram} \\ \Delta H_f^\circ &= \text{the hypothetical heat of fusion of} \\ &\quad \text{a perfectly crystalline material} \\ &\cong 288 \text{ J / g} \end{aligned}$$

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