

# Post annealing

Filament Spectrum PLA Pro can be treated at high temperature using a heating chamber. After the crystallization of the printout, the model is characterized by increased thermal resistance (up to 85°C) and almost twice higher impact resistance than standard ABS.

General guideline for the crystallization process:

1. Preheat the heating chamber to the temperature range 110°C–120°C.
2. If possible, measure the temperature in different points of heating chamber to ensure absence of hot / cold spots. Uneven heating can lead to unexpected deformation and sub-optimal performance of printed parts.
3. Place printed part inside the heating chamber on a flat surface to avoid changes in the geometry during the heating process.
4. Typical time to anneal parts with a wall thickness of approx. 3.2mm is on average 20 minutes.
5. After removing the part from the heating chamber, leave the part to cool down under ambient conditions.
6. If a water-bath is used, the part may require a slightly higher temperature for crystallization (the water-bath cannot be at 110°C–120°C).

Please follow safety procedures that are suitable for working at higher temperatures.

