

Preparing model for 3D printing

Full Article: [How to Prepare Your 3D Model for Printing \(The Right Way\)](#)

Final Checklist Before Printing

Run through this list before you upload:

- **File opens without errors** in at least one program
- **Dimensions are correct** (measured in millimeters)
- **Mesh is watertight** (no holes or non-manifold geometry)
- **Walls are thick enough** (minimum 1.2mm recommended)
- **File size is reasonable** (under 100MB preferred)
- **No floating geometry** or disconnected pieces inside the model
- **Overhangs are addressed** (either support-friendly or designed with chamfers)
- Consider Print orientation
 - **Strength** (layers are weakest along the Z-axis)
 - **Surface quality** (supports leave marks where they attach)
 - **Print success** (overhangs over 45° need supports)

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