

Here's how to calculate the weight of an **U-seal silicone vacuum bag** with a thickness of 3mm and external dimension of 1.7M × 3.1M using the four-step process:

Step 1: Determine the Dimensions

- Thickness: 3mm
 - Width: 1.7M
 - Length: 3.1M
 - Two layers (top and bottom silicone sheets)
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Step 2: Calculate the Silicone Sheet Weight

Using the formula:

Density (1.3g/cm³) × Thickness × Length × Width × 2 Layers

Calculation:

$$1.3\text{g/cm}^3 \times 3\text{mm} \times 1.7\text{M} \times 3.1\text{M} \times 2$$

Convert measurements to centimeters:

$$1.3 \times 0.3\text{cm} \times 170\text{cm} \times 310\text{cm} \times 2 = 41.106\text{kg}$$

Step 3: Add the U Sealing Strip Weight

Using the formula:

(Length + Width) × 2 × 2 Layers × 0.4kg/M (U-Seal weight per meter)

Calculation:

(1.7M + 3.1M) × 2 × 2 × 0.4kg/M

(1.7 + 3.1) × 2 × 2 × 0.4 = 7.68kg

Step 4: Calculate the Total Weight

Add the weights from Steps 2 and 3:

Silicone Sheets: 41.106kg

Sealing Strips: 7.68kg

Total Weight = 41.106kg + 7.68kg = 48.786kg

Final Result

The **net weight** (N.W.) of a vacuum bag with 3mm thickness and external dimensions of 1.7M × 3.1M is approximately **48.786kg per set**.