

Norplex-Micarta Sheet Weight Calculation

Below is a table which gives a “weight factor” for determining the weight of a laminated composite sheet product, depending upon the thickness, sheet size and the components, resin and substrate, of construction.

| Sheet Size | 48” X 48” | 48” X 39” | 48” X 60” | 39” X 79” | 48” X 96” | 48” X 108” | 48” X 120” | 48” X 36” | 48” X 39” | 48” X 96” | 48” X 108” | 48” X 120” | 48” X 72” | 48” X 84” |
|---------------|-----------------|------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|-----------------|------------------|------------------|-----------------|-----------------|
| Weight Factor | A | B | C | D | E | F | G | J | K | L | M | N | O | P |
| Class 1 | -- ¹ | 94 ² | 144 | 154 | 230 | -- ¹ | 288 | | | | | | | |
| Class 2 | -- ¹ | 101 ² | 156 | 167 | 249 | -- ¹ | 311 | | | | | | | |
| Class 3 | -- | 84 | -- | -- | -- | -- | -- | | | | | | | |
| Class 4G | | | | | | | | 123 ² | 133 ² | -- ¹ | -- ¹ | 410 | -- ¹ | -- ¹ |
| Class 5G | | | | | | | | 120 | -- | 320 | -- ¹ | -- ¹ | 240 | -- ¹ |

Weight Class:

- 1 – Paper, all resins .031 to 1.125
- 1 – Cotton cloth, all resins .062 to 1.125
- 2 – Molybdenum or Graphite filled systems.
- 3 – Nylon fabric.
- 4G – Phenolic and Melamine resins combined with Glass fabrics.
- 5G – Epoxy resins combined with Glass fabrics.

Example 1: To determine the weight of a laminated sheet of NP610, 0.062” in thickness x 39” wide x 79” long. Weight Factor 1, column D:

$$\begin{array}{rclcl} \text{Multiply: (Weight Factor – 1/D)} & \times & \text{(Desired Thickness)} & = & \text{Sheet Weight} \\ 154 & \times & .062'' & = & 9.55 \text{ pounds} \end{array}$$

Example 2: To determine the weight of a laminated sheet of NP510A, 0.750” in thickness x 48” wide x 96” long. Weight Factor 5G, column L:

$$\begin{array}{rclcl} \text{Multiply: (Weight Factor – 5G/L)} & \times & \text{(Desired Thickness)} & = & \text{Sheet Weight} \\ 320 & \times & .750'' & = & 240 \text{ pounds} \end{array}$$

¹ These sheet sizes are available in most grades. There are minimums, and possibly extended lead-times, contact Customer Service by phone at: 800 350-9490; by facsimile, 800 350-0491; or by email, kbrainard@norplex-micarta.com.

² This number is only used for thickness greater than 1.125” to 4.00”. If under, 1.125” use the 48” x 120” weight factor and divide by 3.